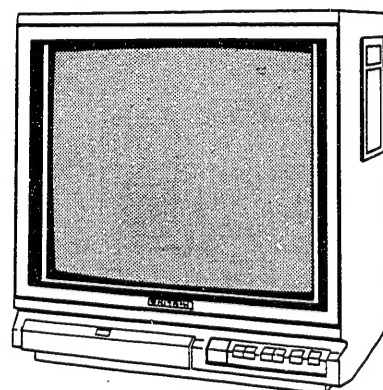




YK

No.933E

CT2000S  
CT2000W



This service manual shows only essential items.  
Our complete service manual including "alignment procedure", and "technical information" are issued by manual No. 895.

**CAUTION:** Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

# CONTENTS

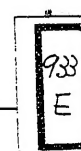
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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

## COMPONENT COLOR TELEVISION

October 1983

YOKOHAMA WORKS



# SAFETY PRECAUTIONS

**NOTICE:** Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

**WARNING:** Since the chassis of this receiver is connected to one side of AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

The following precautions should be observed:

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled. Keep picture tube away from the body while handling.
2. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
3. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment cover-shields, isolation resistor-capacitor, etc.
4. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
6. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

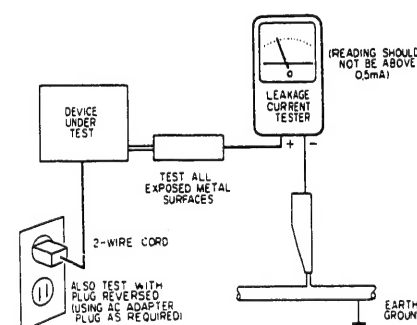
Therefore, the following checks should be performed for the continued protection of the customer and service technician.

## Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of  $0.3M\Omega$  and a maximum resistor reading of  $5M\Omega$ . Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

## Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on. Using a "leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (antennas, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

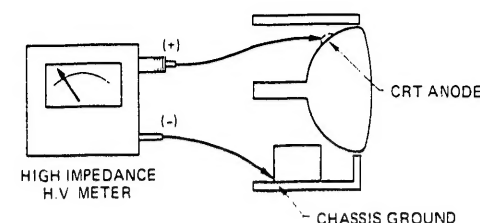
## High Voltage

This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.

## Serviceman warning

With minimum Brightness and Picture, operating high voltage in this receiver is lower than 31.0KV. In case any component having influence on high voltage is replaced, confirm that high voltage with minimum Brightness and Picture is lower than 31.0KV. To measure H.V. use a high impedance H.V. meter. Connect (-) to chassis earth and (+) to the CRT anode button. (See the following connection diagram).

**NOTE:** Turn power switch off without fail before the connection with Anode button is made.



## X-radiation

**TUBE:** The primary source of X radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X radiation emissions.

For continued X radiation protection, the replacement tube must be the same type as the original, HITACHI approved type.

When trouble shooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.

Do not operate the chassis longer than is necessary to locate the cause excessive voltage.

## PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receiver have special safety related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\Delta$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

## TECHNICAL SPECIFICATIONS

ANTENNA INPUT IMPEDANCE	300 $\Omega$ , 75 $\Omega$
CHANNEL COVERAGE	
VHF	2 ~ 13
UHF	14 ~ 83
CATV	A-5 ~ A-1
	A ~ W
	W + 1 ~ W + 28
CHANNEL INDICATOR	DIGITAL/ON SCREEN
INTERMEDIATE FREQUENCY	
Picture I-F Carrier	45.75 MHz
Sound I-F Carrier	41.25 MHz
Sound I-F	4.5 MHz
POWER INPUT	AC120V, 60 Hz
POWER RATING	140W

CONVERGENCE	Self convergence
FOCUS	Electrostatic
SOUND OUTPUT	5W x 2
DIMENSIONS	
W	51.0 cm
H	47.5 cm
D	51.0 cm
WEIGHT	Appr. 23.5 kg

# TECHNICAL CAUTIONS

## [CHECK OF HIGH VOLTAGE HOLD DOWN CIRCUIT]

### Checking of the high voltage hold down circuit operation

1. Turn the switch of the set OFF.
2. Connect a high voltage voltmeter between the CRT anode and the chassis ground (K3) as shown in Fig. 1.
3. Set the AC input voltage to 120V±3V.
4. Set the Brightness and Picture controls to maximum.
5. Connect Equipment — A as shown in Fig. 2. Be sure that the control knob of Equipment — A is rotated fully counterclockwise.
6. Slowly rotate the control knob of Equipment — A clockwise and confirm that picture on the screen disappears at the indication of high voltage voltmeter less than 31.0kV.
7. Turn the set OFF, and disconnect Equipment — A and high voltage voltmeter.

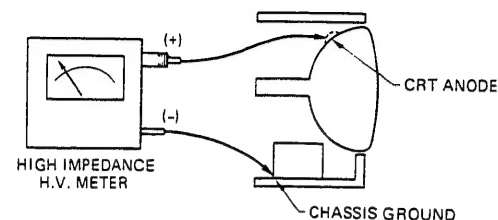


Fig. 1 Connection of H.V. Meter

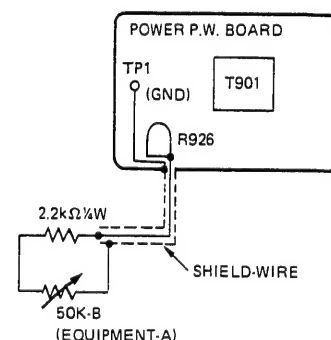
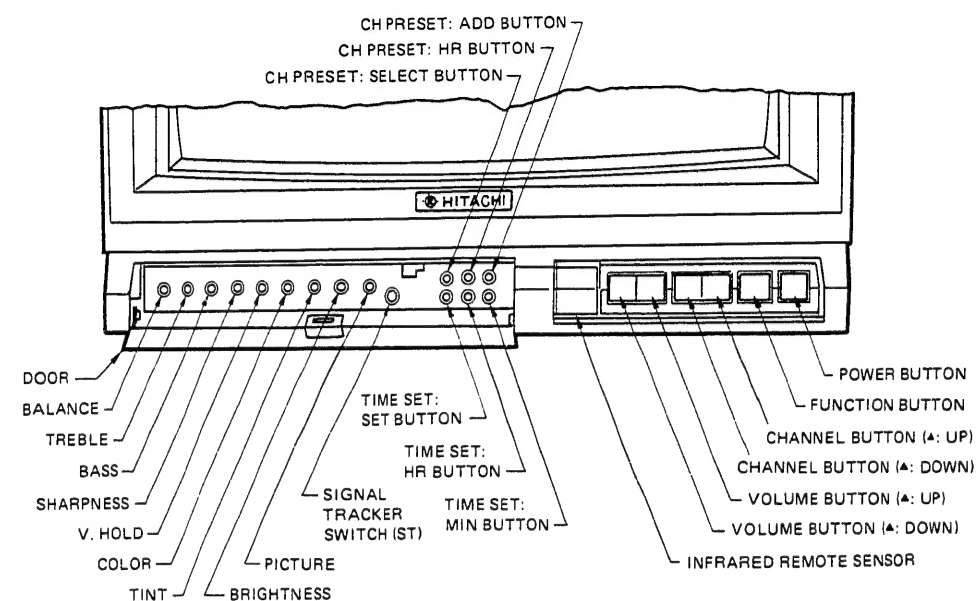
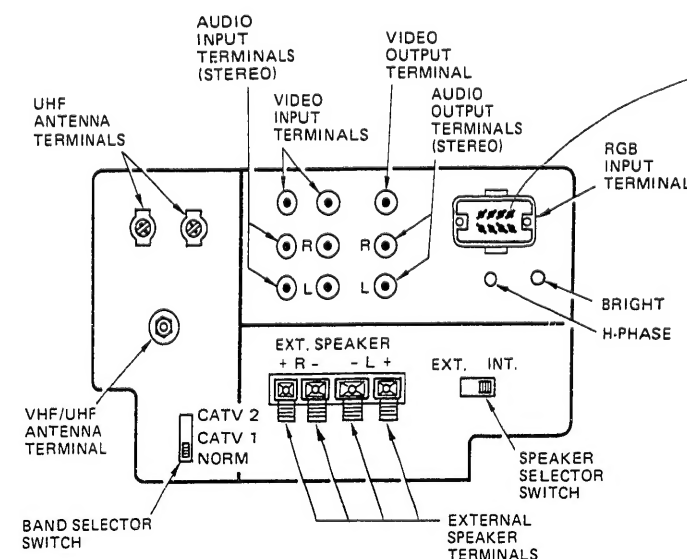


Fig. 2

# CONTROLS



## BACK PANNEL TERMINALS



同期の正確性  
PC-8001などは  
国内のビデオには  
互換性がない。  
(取説参照)

## OPERATING SUMMARY

## 1. CHANNEL PRESETTING

A special programming circuit in the tuning system allows you to preset into the receiver's memory those channels you prefer to watch. Then, by pressing the CHANNEL BUTTON UP side (▲) or DOWN side (▼), the tuner will advance directly to the next preset channel ..... automatically skipping the unwanted ones. VHF 2-13 channels have been preset at the factory. To erase unwanted channels from the memory or to additional channels available in your area, follow the instructions below in the exact order shown.

## 1. ELIMINATING UNWANTED CHANNELS -

CHANNEL BUTTON SELECT BUTTON  
ERASE BUTTON

- (1) Press the CHANNEL BUTTON (▲: UP or ▼: DOWN) to select the unwanted channel.
- (2) Press the ERASE BUTTON while pressing the SELECT BUTTON in the door, and the channel is erased from the memory. When you press the SELECT BUTTON at this time, the time indication at the lower right side on the screen changes to "P" and "P" disappears by pressing the ERASE BUTTON. This means that the memory storage mode (indicated by "P") has changed to the memory erase mode ("P" disappears). (See Fig. 3 and Fig. 4)
- (3) Repeat item 1 and 2 to erase the memory of other unwanted channels.

## 2. ADDING DESIRED CHANNELS -

CHANNEL BUTTON SELECT BUTTON  
ADD BUTTON

- (1) Press the CHANNEL BUTTON (▲: UP or ▼: DOWN) to tune to the desired channel. When you tune the channel using CHANNEL BUTTON, press the CHANNEL BUTTON while pressing the SELECT BUTTON. At this time, the time indication disappears and "P" is not also displayed.
- (2) Press the ADD BUTTON while pressing the SELECT BUTTON, and the channel is stored in memory. "P" is indicated at this time. (See Fig. 3 and Fig. 4)
- (3) Repeat item 1 and 2 to store other channels in memory.

- Note:** 1. When all channels have been erase, channels cannot be changed by pressing the CHANNEL BUTTON UP (▲) or DOWN (▼). In this case, press the CHANNEL BUTTON while pressing the SELECT BUTTON.
2. The FUNCTION BUTTON (for selecting external VCR, Video Disc Player or Personal Computer) can not be stored in memory.

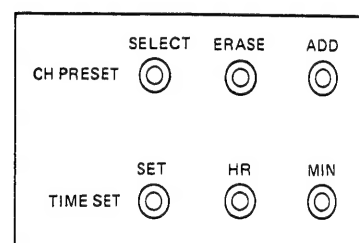


Fig. 3

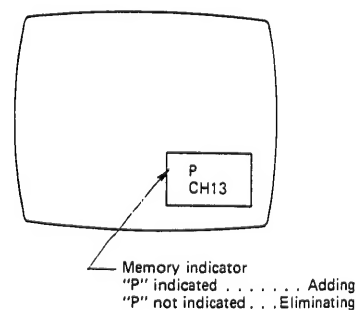


Fig. 4

## 2. TIME SETTING

Your TV is equipped with a clock circuit and can display the time for your convenience. To set the correct time on your TV, operate as follows.

## 1. SETTING THE HOUR -

SET BUTTON HR BUTTON

Push the HR BUTTON while pressing the SET BUTTON until the time display on the screen shows the correct hour.

## 2. SETTING THE MINUTE -

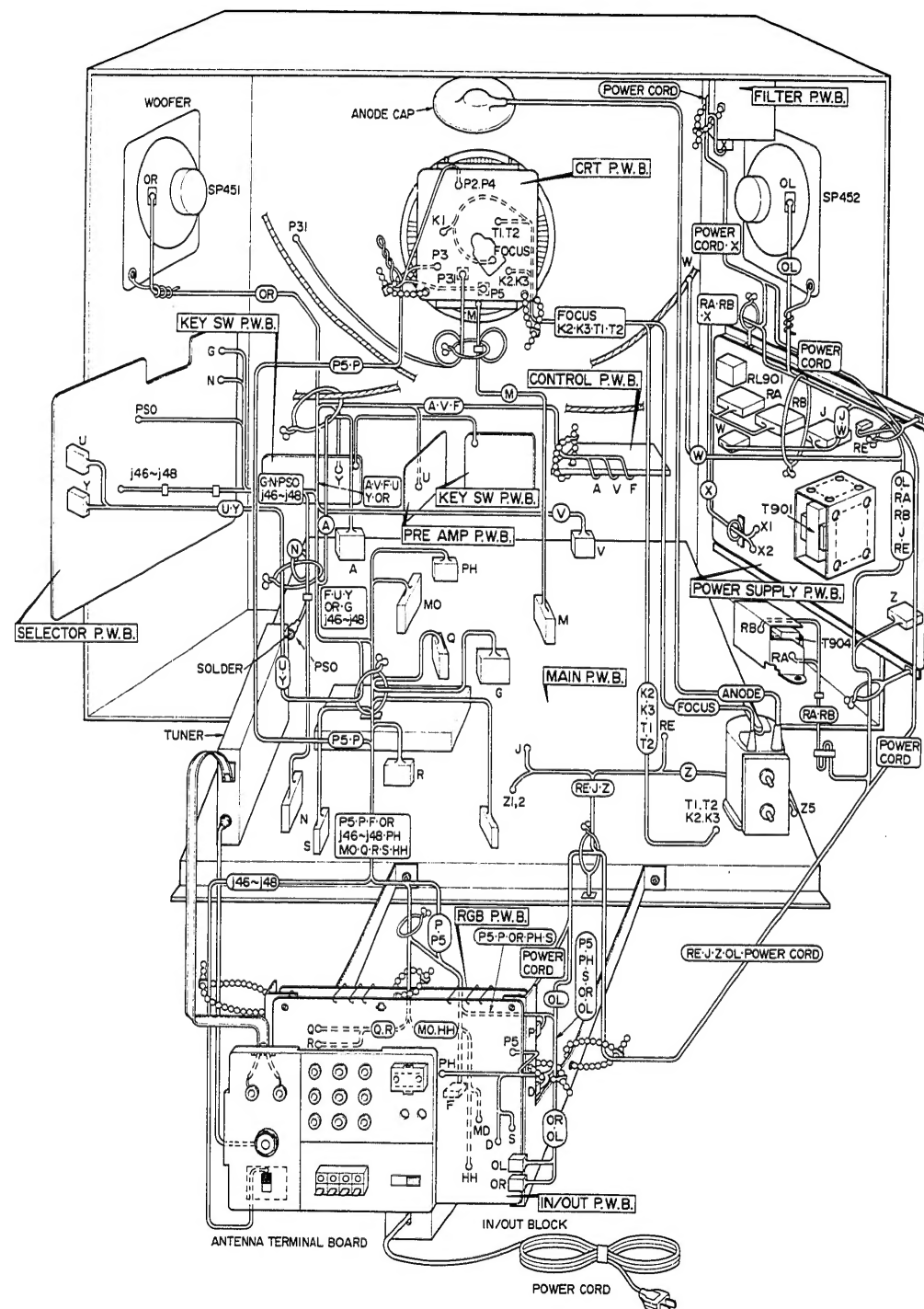
SET BUTTON MIN BUTTON

Push the MIN BUTTON while pressing the SET BUTTON until the time display on the screen shows the correct minute.

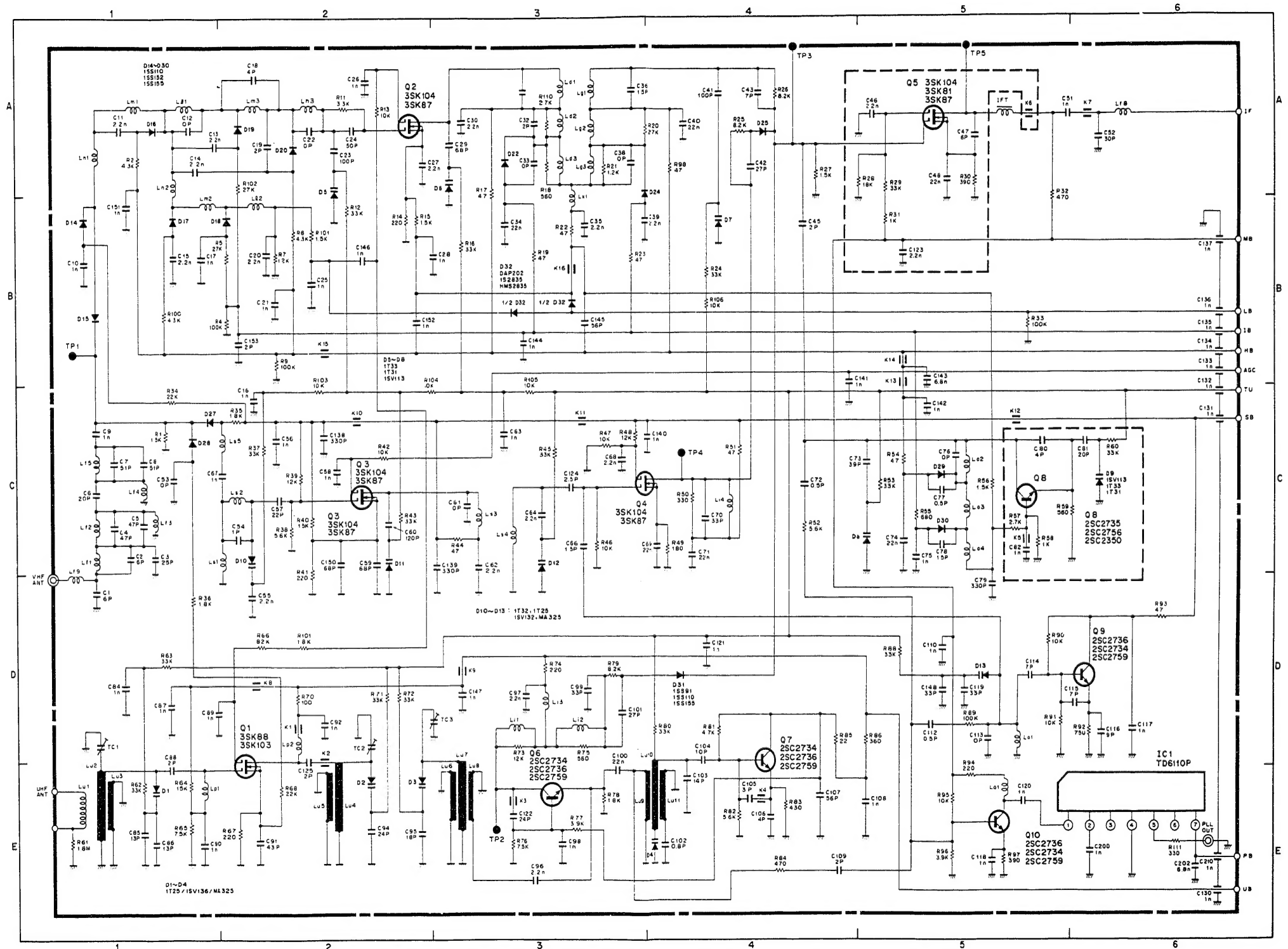
- \* When pressing the SET BUTTON, the time is displayed at the right lower side of the screen automatically.
- \* When you have finished time adjustment, the time display disappears after approx. 4 seconds.
- \* The clock starts operating just after the SET BUTTON is released. When you release the SET BUTTON simultaneously with a time signal, the clock starts from 0 second.

- Note:** 1. If the time display does not appear on the screen the power to the receiver has been interrupted (power failure, the receiver has been unplugged) and the clock must be reset.
2. When the power cord is unplugged, the clock is stopped. It is better that the power cord is not unplugged except you are going out for a long time or not using the set for a period of time.
3. When you use the set in an area with a power frequency other than 60 Hz, the time display will not operate correctly.

# WIRING DIAGRAM

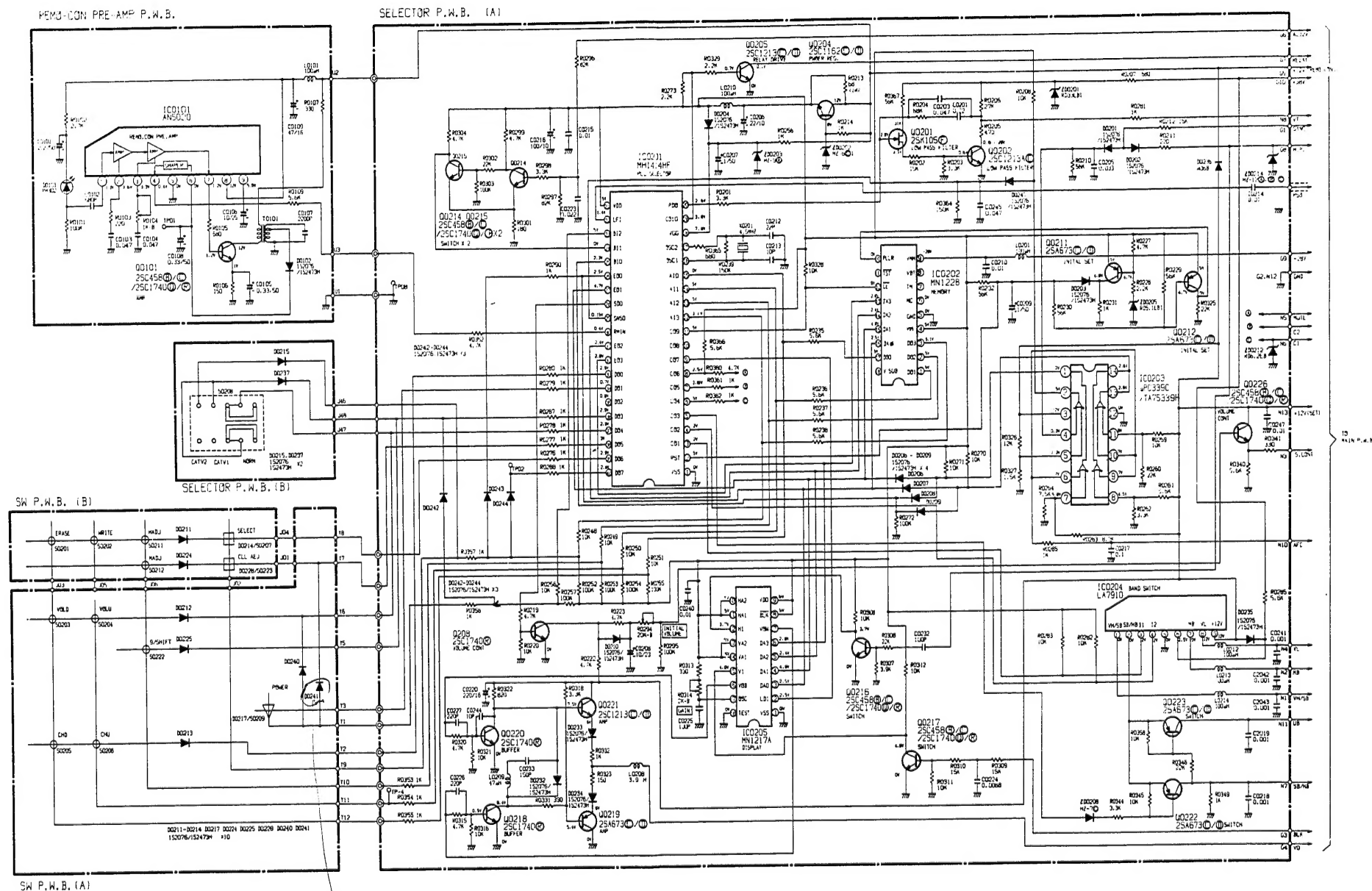


TUNER CIRCUIT DIAGRAM (ET-449)



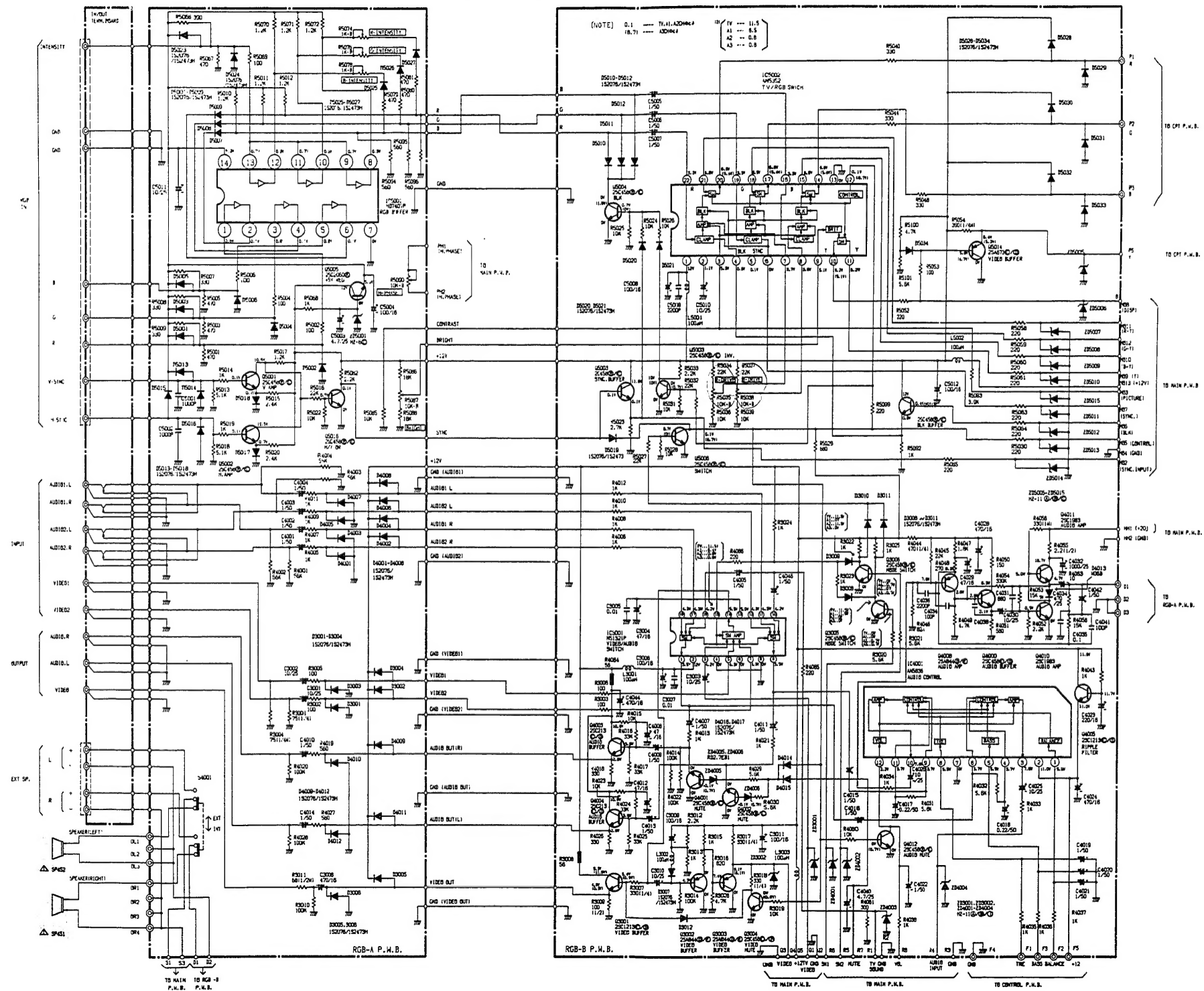
CT2000S  
CT2000W

# PROGRAM SELECTOR CIRCUIT (CT2000S/CT2000W)





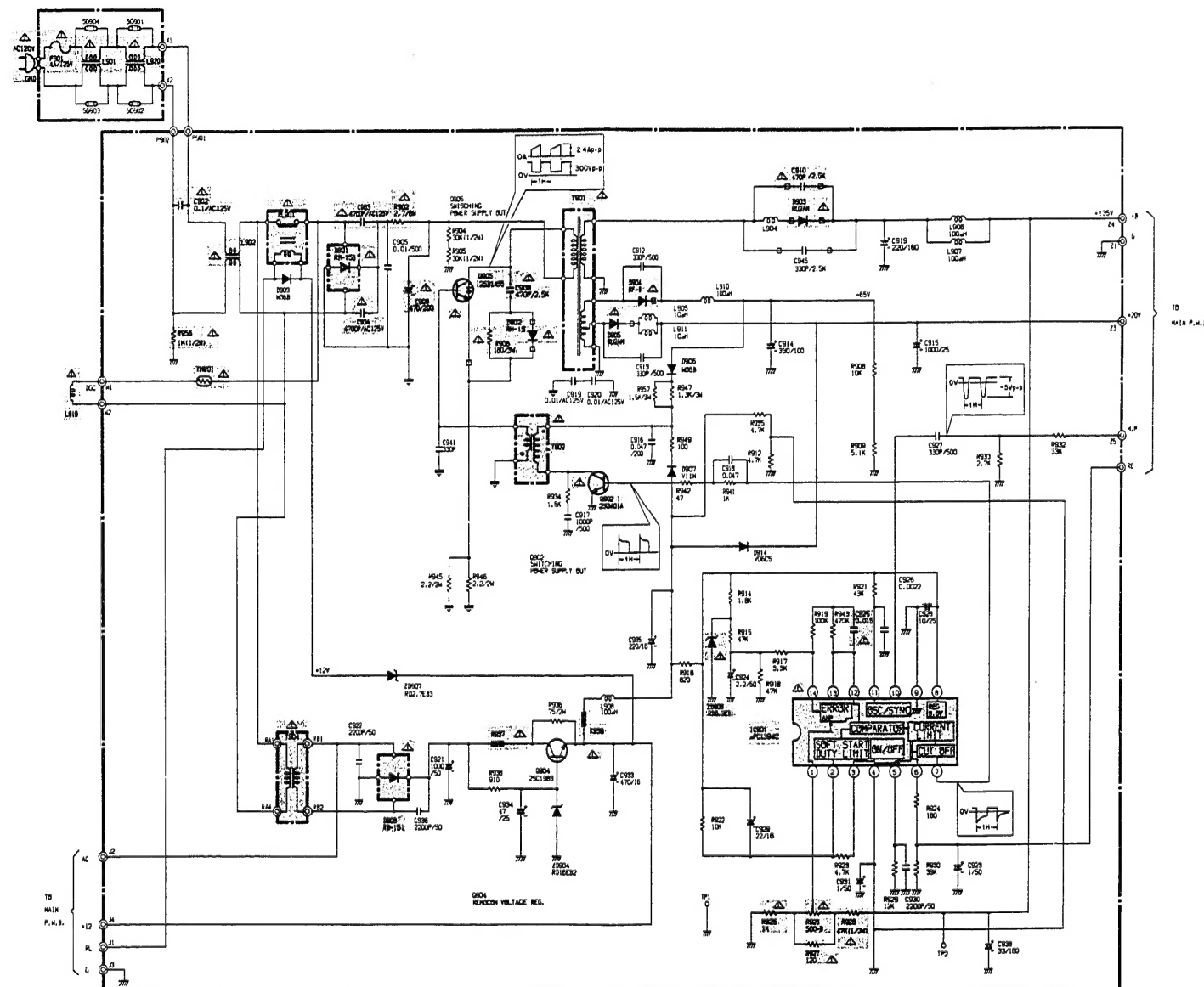
R.G.B. CIRCUIT DIAGRAM (CT2000S/CT2000W)





POWER CIRCUIT DIAGRAM (CT2000S/CT2000W)

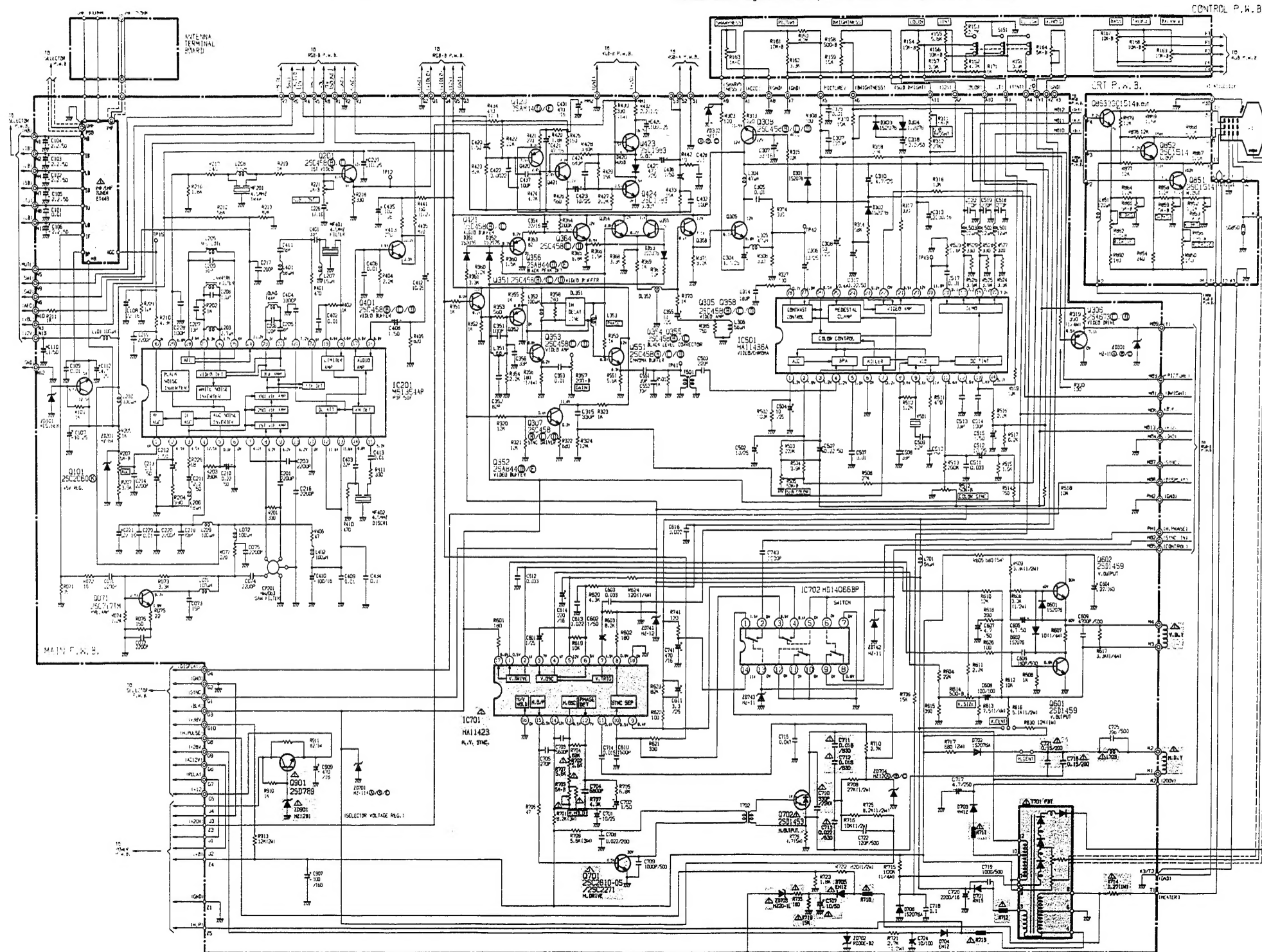
PRODUCT SAFETY NOTE: Components marked with a  $\Delta$  and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100k $\Omega$ /V).
- Voltage taken on a complex color bar signal including a standard color bar signal.

# MAIN CIRCUIT DIAGRAM (CT2000S/CT2000W)

**PRODUCT SAFETY NOTE:** Components marked with a  $\Delta$  and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the **PRODUCT SAFETY NOTICE** of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

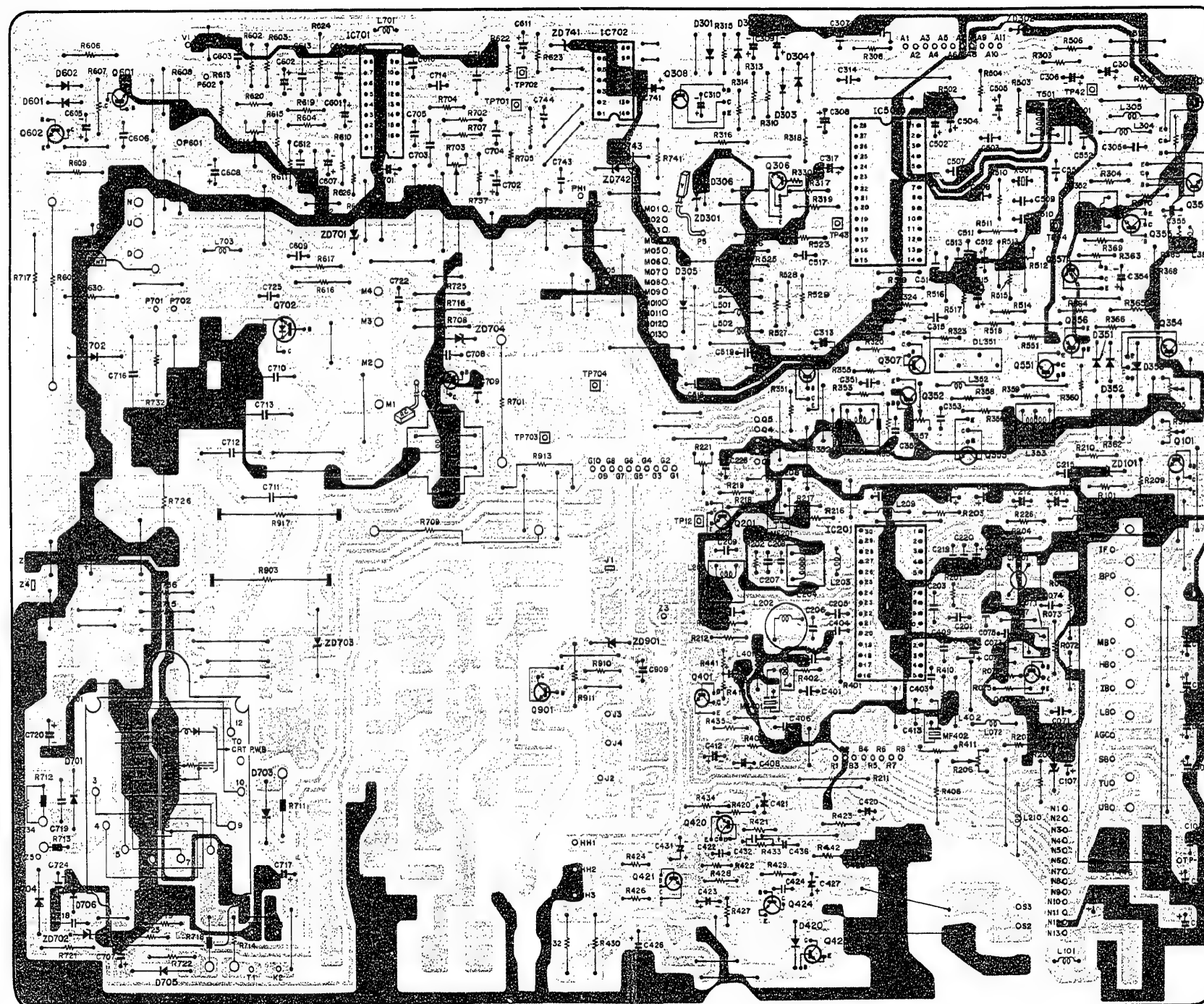


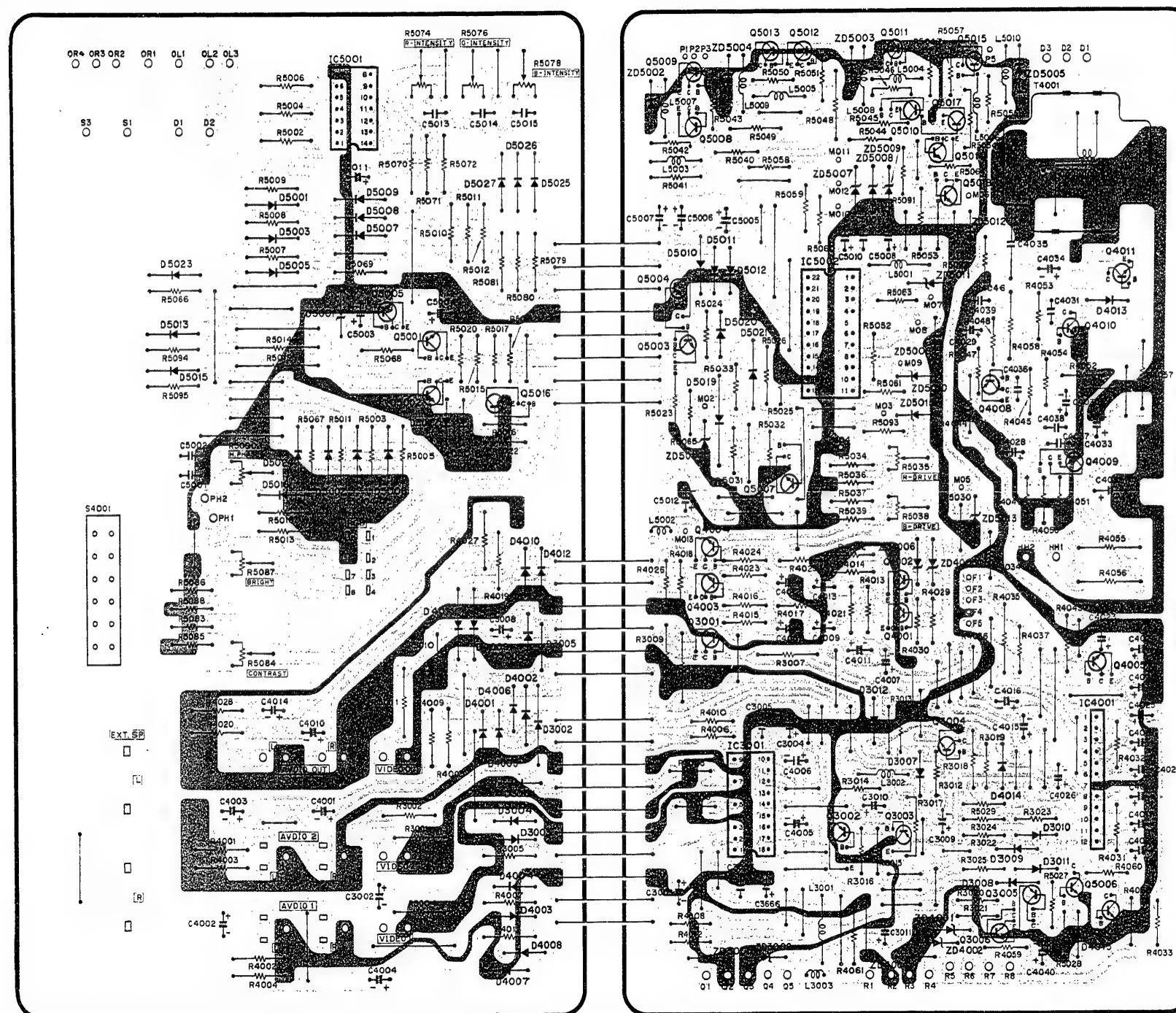
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100k $\Omega$ /V).
- Voltage taken on a complex color bar signal including a standard color bar signal.

MAIN P.W. BOARD

.....+8 PATTERN

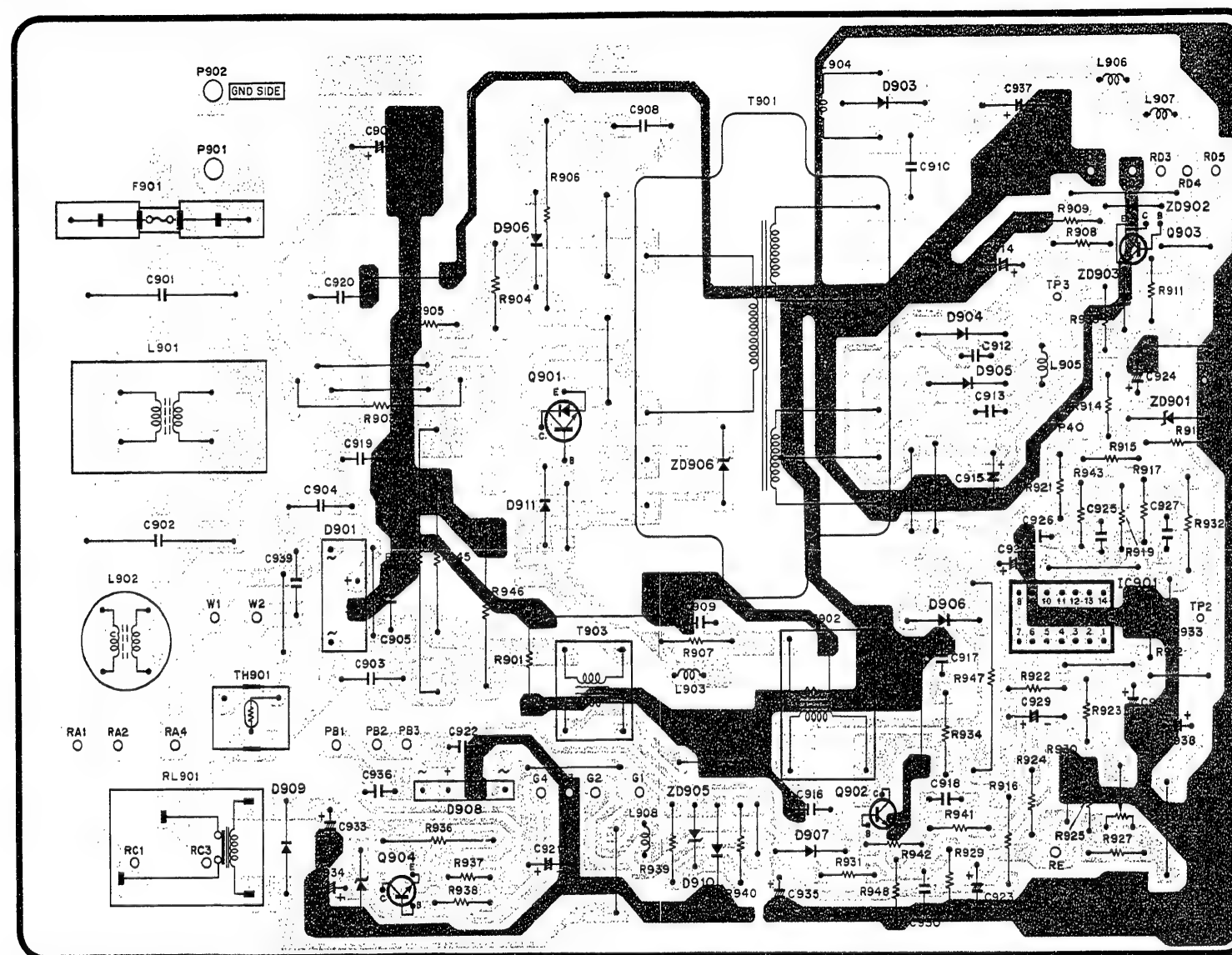
..... GROUND PATTERN



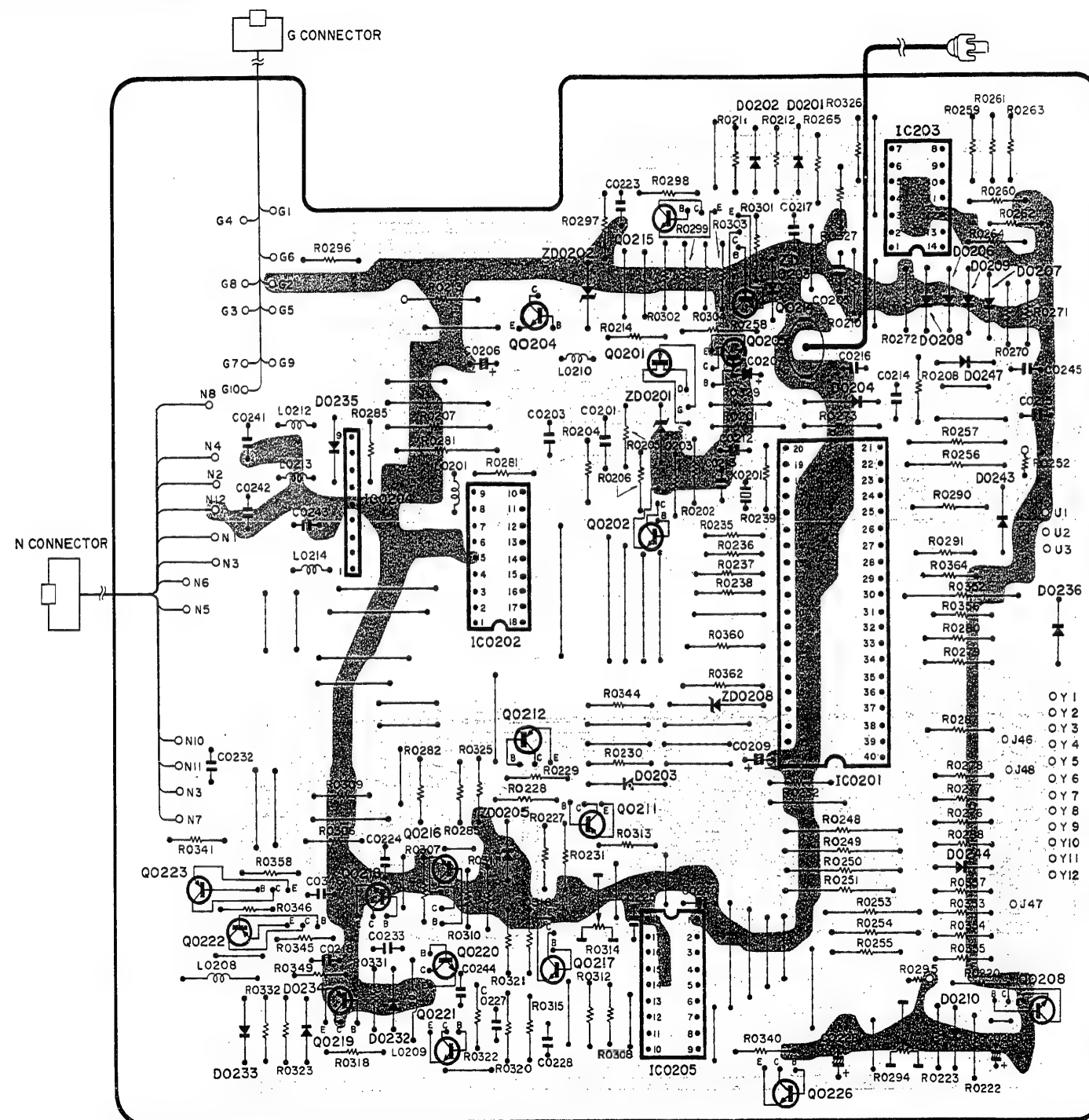




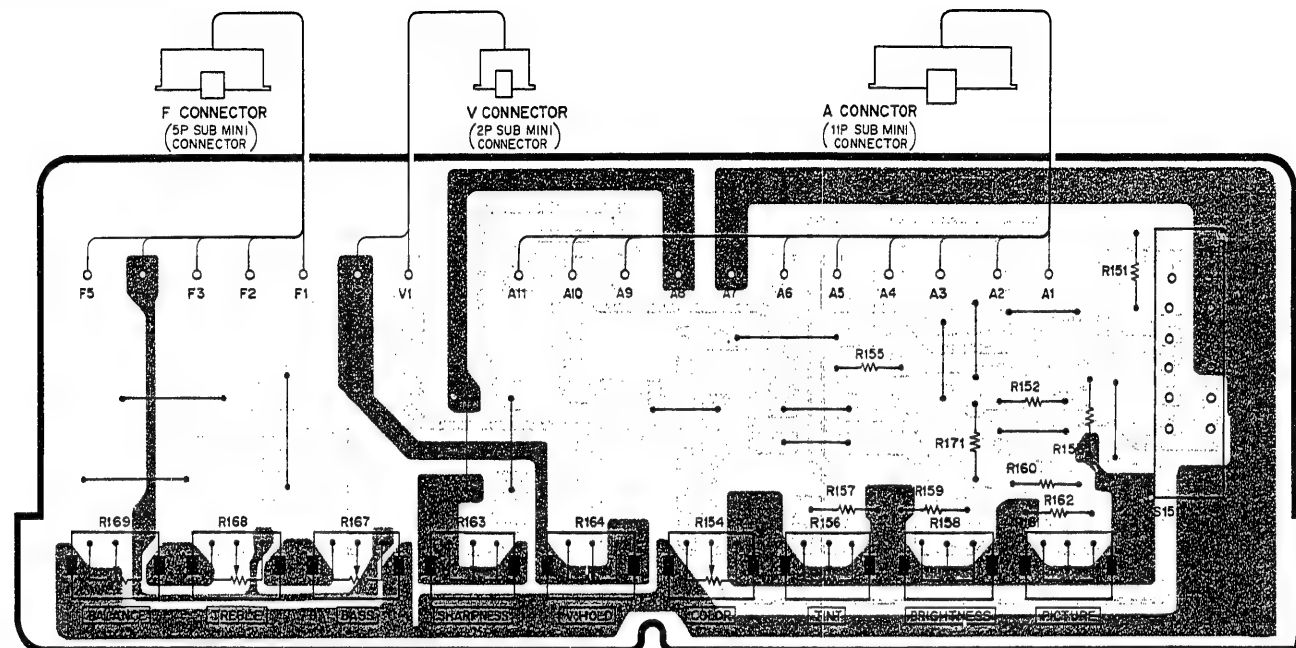
POWER P.W. BOARD



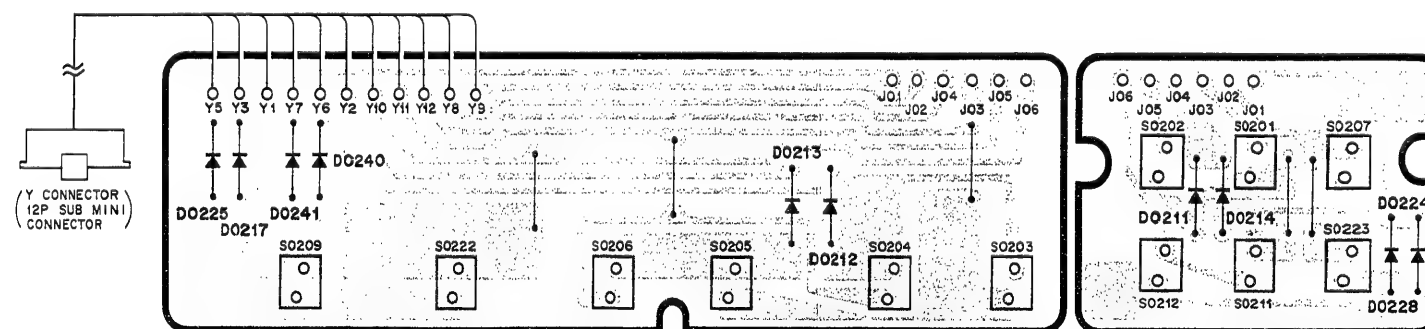
## PROGRAM SELECTOR P.W. BOARD



CONTROL P.W. BOARD



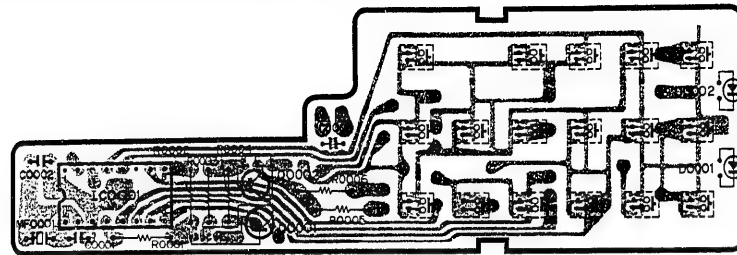
KEY SWITCH P.W. BOARD



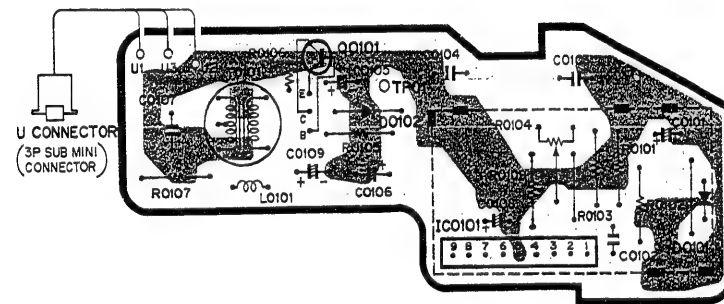


**CT2000S**  
**CT2000W**

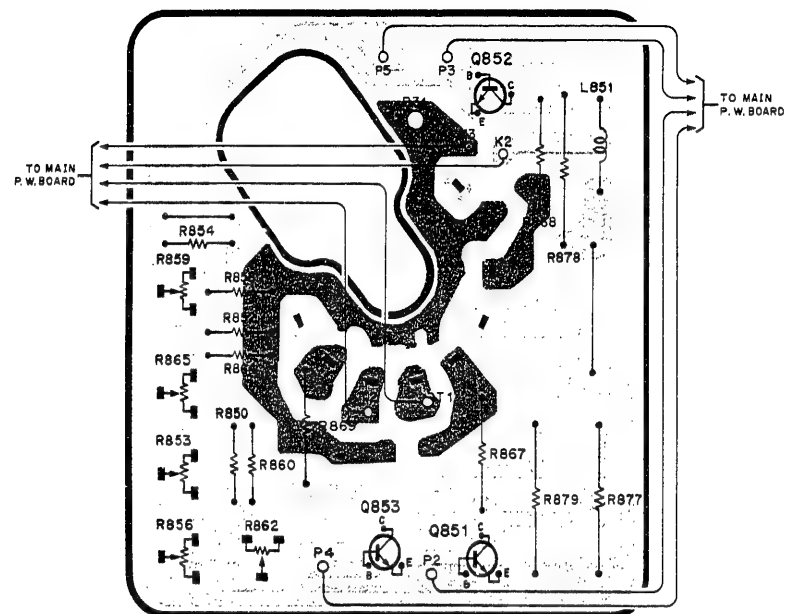
# REMOTE CONTROL TRANSMITTER P.W. BOARD



# REMOTE CONTROL RECEIVER P.W. BOARD



## C.R.T. P.W. BOARD



## REPLACEMENT PARTS LIST

**PRODUCT SAFETY NOTE:** Components marked with a  $\Delta$  have special characteristics important to safety. Before replacing any of these components, read carefully, the **PRODUCT SAFETY NOTICE** of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

**ABBREVIATIONS:** Capacitors . . . . . CD: Ceramic disk, PF: Polyester film, EL: Electrolytic, PP: Polypropylene, PR: Paper, TA: Tantalum  
Resistors . . . . . CF: Carbon film, CC: Carbon composition, OMF: Metal oxide film, VR: Varialbe resistor, WW: Wire wound, FR: Fuse resistor

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
CAPACITORS					
C0001	0248684	CD 100PF +-5% 50V	C071	0244105	CD 2200PF +-10% 50V
C0002	0248684	CD 100PF +-5% 50V	C072	0244105	CD 2200PF +-10% 50V
C0003	0253011	EL 220MF 6.3V	C073	0246444	CD 15PF +-5% 50V
C0101	0252817	EL 2.2MF 50V	C074	0244105	CD 2200PF +-10% 50V
C0102	0244117	CD 680PF +-10% 50V	C075	0244105	CD 2200PF +-10% 50V
C0103	0277021	PF 0.047MF +-10% 50V	C101	0277013	PF 0.01MF +-10% 50V
C0104	0277021	PF 0.047MF +-10% 50V	C102	0253083	EL 2.2MF 50V
C0105	0252807	EL 0.33MF 50V	C103	0253083	EL 2.2MF 50V
C0106	0252821	EL 10MF 25V	C104	0253083	EL 2.2MF 50V
C0107	0299995	PP 2200PF +-10% 100V	C105	0253083	EL 2.2MF 50V
C0108	0252807	EL 0.33MF 50V	C106	0253083	EL 2.2MF 50V
C0109	0252525	EL 47MF 16V	C107	0253066	EL 10MF 25V
C0201	0277029	PF 0.22MF +-10% 50V	C108	0253047	EL 22MF 16V
C0203	0277021	PF 0.047MF +-10% 50V	C109	0277013	PF 0.01MF +-10% 50V
C0205	0277019	PF 0.033MF +-10% 50V	C110	0253082	EL 1MF 50V
C0206	0253031	EL 220MF 10V	C112	0253065	EL 4.7MF 25V
C0207	0253082	EL 1MF 50V	C201	0244105	CD 2200PF +-10% 50V
C0208	0253065	EL 4.7MF 25V	C203	0244105	CD 2200PF +-10% 50V
C0209	0253082	EL 1MF 50V	C205	0246418	CD 8PF +-0.25PF 50V
C0210	0277013	PF 0.01MF +-10% 50V	C206	0246466	CD 120PF +-5% 50V
C0212	0246448	CD 22PF +-5% 50V	C207	0246443	CD 13PF +-5% 50V
C0213	0246420	CD 10PF +-0.5% 50V	C208	0246464	CD 100PF +-5% 50V
C0214	0277013	PF 0.01MF +-10% 50V	C209	0246463	CD 91PF +-5% 50V
C0215	0277013	PF 0.01MF +-10% 50V	C210	0252800	EL 0.22MF 50V
C0216	0253030	EL 100MF 10V	C211	0253083	EL 2.2MF 50V
C0217	0277025	PF 0.1MF +-10% 200V	C212	0253082	EL 1MF 50V
C0218	0277001	PF 1000PF +-10% 50V	C213	0252805	EL 0.1MF 50V
C0219	0277001	PF 1000PF +-10% 50V	C214	0244105	CD 2200PF +-10% 50V
C0223	0277017	PF 0.022MF +-10% 50V	C215	0244105	CD 2200PF +-10% 50V
C0224	0277011	PF 6800 PF +-10% 50V	C216	0244105	CD 2200PF +-10% 50V
C0225	0248684	CD 100PF +-5% 50V	C217	0244105	CD 2200PF +-10% 50V
C0226	0248692	CD 220PF +-5% 50V	C219	0244105	CD 2200PF +-10% 50V
C0227	0248692	CD 220PF +-5% 50V	C220	0248680	CD 68PF +-5% 50V
C0228	0253051	EL 220MF 16V	C221	0253047	EL 22MF 16V
C0232	0248684	CD 100PF +-5% 50V	C226	0253049	EL 47MF 16V
C0233	0248688	CD 150PF +-5% 50V	C227	0253066	EL 10MF 25V
C0240	0277013	PF 0.01MF +-10% 50V	C228	0248684	CD 100PF +-5% 50V
C0241	0277001	PF 1000PF +-10% 50V	C229	0277013	PF 0.01MF +-10% 50V
C0242	0277001	PF 1000PF +-10% 50V	C3001	0253066	EL 10MF 25V
C0243	0277001	PF 1000PF +-10% 50V	C3002	0253066	EL 10MF 25V
C0244	0248640	CD 150PF +-0.25PF 50V	C3003	0253066	EL 10MF 25V
C0245	0277021	PF 0.047MF +-10% 50V	C3004	0253069	EL 47MF 25V
			C3005	0276823	PF 0.01MF +-5% 50V

**PRODUCT SAFETY NOTE:** Components marked with a \* have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C3006	0253050	EL 100MF 16V	C4024	0253053	EL 470MF 16V
C3007	0276823	PF 0.01MF +-5% 50V	C4025	0253066	EL 10MF 25V
C3008	0253053	EL 470MF 16V	C4026	0253066	EL 10MF 25V
C3009	0253050	EL 100MF 16V	C4028	0253053	EL 470MF 16V
C3010	0253066	EL 10MF 25V	C4029	0253049	EL 47MF 16V
C3011	0253050	EL 100MF 16V	C403	0246448	CD 22PF +-5% 50V
C304	0253065	EL 4.7MF 25V	C4030	0253066	EL 10MF 25V
C305	0277013	PF 0.01MF +-10% 50V	C4031	0244117	CD 680PF +-10% 50V
C306	0253066	EL 10MF 25V	C4032	0253460	EL 100MF 16V
C307	0244139	CD 1000PF +-10% 50V	C4034	0253455	EL 4.7 MF 160V
C308	0253066	EL 10MF 25V	C4035	0277893	PF 0.1MF +-10% 200V
C309	0253048	EL 33MF 16V	C4036	0244105	CD 220PF +-10% 50V
C310	0253065	EL 4.7MF 25V	C404	0244107	CD 3300PF +-10% 50V
C313	0253055	EL 220MF 16V	C4040	0253065	EL 4.7MF 25V
C314	0248690	CD 160PF +-5% 50V	C4041	0247854	CD 100PF 500V
C315	0244113	CD 330PF +-10% 50V	C406	0244171	CD 0.01MF +-20-2 % 50V
C317	0252606	EL 0.22MF 50V	C408	0253082	EL 1MF 50V
C318	0253083	EL 2.2MF 50V	C409	0244171	CD 0.01MF +-20-2 % 50V
C320	0277013	PF 0.01MF +-10% 50V	C410	0253050	EL 100MF 16V
C351	0248684	CD 100PF +-5% 50V	C411	0248680	CD 68PF +-5% 50V
C352	0248682	CD 82PF +-5% 50V	C412	0253066	EL 10MF 25V
C353	0277013	PF 0.01MF +-10% 50V	C413	0276823	PF 0.01MF +-5% 50V
C354	0253047	EL 22MF 16V	C420	0253082	EL 1MF 50V
C355	0253066	EL 10MF 25V	C421	0253049	EL 47MF 16V
C356	0248672	CD 33PF +-5% 50V	C422	0244105	CD 220PF +-10% 50V
C4001	0253082	EL 1MF 50V	C423	0253066	EL 10MF 25V
C4002	0253082	EL 1MF 50V	C424	0243511	CD 680PF +-5% 50V
C4003	0253082	EL 1MF 50V	C425	0258584	EL 10MF 160V
C4004	0253082	EL 1MF 50V	C426	0259857	EL 100MF 160V
C4005	0253082	EL 1MF 50V	C427	0257537	EL 4.7MF 160V
C4006	0253082	EL 1MF 50V	C431	0253050	EL 100MF 16V
C4007	0253082	EL 1MF 50V	C434	0277025	PF 0.1MF +-10% 200V
C4008	0253049	EL 47MF 16V	C435	0253050	EL 100MF 16V
C4009	0253082	EL 1MF 50V	C5001	0244139	CD 1000PF +-10% 50V
C401	0248672	CD 33PF +-5% 50V	C5002	0244139	CD 1000PF +-10% 50V
C4010	0253082	EL 1MF 50V	C5003	0253065	EL 4.7MF 25V
C4011	0253082	EL 1MF 50V	C5004	0253050	EL 100MF 16V
C4012	0253049	EL 47MF 16V	C5005	0253082	EL 1MF 50V
C4013	0253082	EL 1MF 50V	C5006	0253082	EL 1MF 50V
C4014	0253082	EL 1MF 50V	C5007	0253082	EL 1MF 50V
C4015	0253082	EL 1MF 50V	C5008	0253050	EL 100MF 16V
C4016	0253082	EL 1MF 50V	C5009	0244105	CD 2200PF +-10% 50V
C4017	0252806	EL 0.22MF 50V	C5010	0253066	EL 10MF 25V
C4018	0252806	EL 0.22MF 50V	C5011	0253066	EL 10MF 25V
C4019	0253082	EL 1MF 50V	C5012	0253050	EL 100MF 16V
C402	0244171	CD 0.01MF +-20-20% 50V	C502	0253066	EL 10MF 25V
C4020	0253082	EL 1MF 50V	C503	0248692	CD 22PF +-5% 50V
C4021	0253082	EL 1MF 50V	C504	0253066	EL 10MF 25V
C4022	0253082	EL 1MF 50V	C505	0252806	EL 0.22MF 50V
C4023	0253053	EL 470MF 16V	C507	0277013	PF 0.01MF +-10% 50V

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C508	0246454	CD 30PF +-5% 50V	C722	0247856	CD 120PF +-10% 500V
C509	0246446	CD 22PF +-5% 50V	C724	0253285	EL 4.7MF 100V
C510	0246450	CD 27PF +-5% 50V	C725	0244501	CD 1000PF +-10% 500V
C511	0277019	PF 0.033MF +-10% 50V	C741	0253053	EL 470MF 16V
C512	0253066	EL 10MF 25V	C743	0244105	CD 2200PF +-10% 50V
C513	0248672	CD 33PF +-5% 50V	C744	0244117	CD 680PF +-10% 50V
C514	0248684	CD 100PF +-5% 50V	C902	0279718	MP 0.1MF +-10% 125V
C515	0253082	EL 1MF 50V	C903	0249150	CD 4700PF AC125V
C517	0277013	PF 0.01MF +-10% 50V	C904	0249150	CD 4700PF AC125V
C518	0244136	CD 270 PF +-10% 50V	C905	0244541	CD 0.01MF +-10% 500V
C519	0244136	CD 270 PF +-10% 50V	C906	0259976	EL 470MF 200V
C520	0244136	CD 270 PF +-10% 50V	C907	0259857	EL 100MF 160V
C551	0248674	CD 34PF +-5% 50V	C908	0248674	CD 470PF +-10% 2.5KV
C552	0248674	CD 30PF +-5% 50V	C909	0244113	CD 330PF +-10% 50V
C601	0292706	PP 1MF 25V	C910	0243824	CD 470PF +-10% 2.5KV
C602	0253082	EL 1MF 50V	C912	0243507	CD 330PF +-10% 500V
C603	0277019	PF 0.033MF +-10% 50V	C913	0243504	CD 130PF +-10% 500V
C604	0253457	EL 22MF 160V	C914	0253292	EL 330MF +-20% 100V
C605	0253085	EL 4.7MF 50V	C915	0252636	EL 100MF 25V
C606	0243504	CD 180PF +-10% 500V	C916	0299916	PP 0.015MF +-10% 200V
C607	0253085	EL 4.7MF 50V	C917	0244501	CD 1000PF +-10% 500V
C608	0253290	EL 100MF 100V	C918	0276831	PF 0.047MF +-10% 50V
C609	0244565	CD 4700PF +-100-0% 500V	C919	0249146	CD 0.01MF +-10% 50V
C610	0244103	CD 1500PF +-10% 50V	C920	0249146	CD 0.01MF +-10% 50V
C611	0253084	EL 3.3MF 50V	C920	0253047	EL 22MF 16V
C612	0277019	PF 0.033MF +-10% 50V	C921	0244105	CD 2200PF +-10% 50V
C613	0277017	PF 0.022MF +-10% 50V	C921	0253094	EL 1000MF 50V
C614	0252532	EL 220MF 16V	C922	0244105	CD 2200PF +-10% 50V
C616	0277017	PF 0.022MF +-10% 50V	C923	0253082	EL 1MF 50V
C701	0253066	EL 10MF 25V	C924	0253083	EL 2.2MF 50V
C702	0253082	EL 1MF 50V	C925	0276825	PF 0.015MF +-5% 50V
C703	0279211	PF 500PF 50V	C926	0176815	PF 2000PF +-5% 50V
C704	0244111	CD 6300PF +-10% 50V	C927	0243507	CD 330PF +-10% 500V
C705	0244136	CD 270 PF +-10% 50V	C928	0253066	EL 10MF 25V
C707	0253086	EL 10MF 50V	C929	0253047	EL 22MF 16V
C708	0299918	PP 0.022MF +-10% 200V	C930	0244119	CD 300PF +-10% 50V
C709	0244501	CD 1000PF +-10% 500V	C933	0253053	EL 470MF 16V
C710	0243837	CD 330PF +-10% 2.5KV	C934	0253049	EL 47MF 16V
C711	0299993	PP 0.018MF DC630V	C935	0253091	EL 22MF 50V
C712	0299993	PP 0.018MF DC630V	C936	0244105	CD 2200PF +-10% 50V
C713	0299994	PP 0.023MF +-5% 630V	C937	0259699	EL 220MF 160V
C714	0277015	PF 0.015MF +-10% 50V	C938	0253458	EL 33 MF 160V
C715	0277021	PF 0.047MF +-10% 50V			
C716	0299928	PP 0.15MF +-10% 200V			
C717	0259842	EL 4.7MF 250V (NR)			
C718	0277025	PF 0.1MF +-10% 200V			
C719	0244501	CD 1000PF +-10% 500V			
C720	0253055	EL 2200MF 16V			
C721	0299928	PP 0.15MF +-10% 200V			

## RESISTORS

R0001	0187075	CF 2.7K OHM +-5% 1/16W
R0002	0187089	CF 10K OHM +-5% 1/16W
R0004	0187089	CF 10K OHM +-5% 1/16W
R0005	0100001	CF 2.2 OHM +-5% 1/8W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R0006	0100001	CF 2.2 OHM $\pm$ 5% 1/8W	R0261	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R0101	0100113	CF 100K OHM $\pm$ 5% 1/8W	R0262	0100077	CF 3.3K OHM $\pm$ 5% 1/8W
R0102	0100075	CF 2.7K OHM $\pm$ 5% 1/8W	R0263	0100087	CF 8.2K OHM $\pm$ 5% 1/8W
R0103	0100049	CF 220 OHM $\pm$ 5% 1/8W	R0264	0100086	CF 7.5K OHM $\pm$ 5% 1/8W
R0104	0150035	VR 1K OHM-B RS-B	R0265	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0105	0100061	CF 680 OHM $\pm$ 5% 1/8W	R0270	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0106	0100045	CF 150 OHM $\pm$ 5% 1/8W	R0271	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0107	0100053	CF 330 OHM $\pm$ 5% 1/8W	R0272	0100113	CF 100K OHM $\pm$ 5% 1/8W
R0109	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R0273	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R0201	0100077	CF 3.3K OHM $\pm$ 5% 1/8W	R0276	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0202	0100093	CF 15K OHM $\pm$ 5% 1/8W	R0277	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0203	0100077	CF 3.3K OHM $\pm$ 5% 1/8W	R0278	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0204	0100109	CF 68K OHM $\pm$ 5% 1/8W	R0279	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R0205	0100057	CF 470 OHM $\pm$ 5% 1/8W	R0280	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R0206	0100099	CF 27K OHM $\pm$ 5% 1/8W	R0281	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0207	0100061	CF 680 OHM $\pm$ 5% 1/8W	R0282	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0208	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0283	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0210	0100107	CF 56K OHM $\pm$ 5% 1/8W	R0285	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R0211	0100049	CF 220 OHM $\pm$ 5% 1/8W	R0287	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0212	0100093	CF 15K OHM $\pm$ 5% 1/8W	R0288	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0213	0110117	MF 60 OHM $\pm$ 5% 1W	R0290	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0214	0100065	CF 1K OHM $\pm$ 5% 1/8W	R0294	0150039	VR RS-8 20 K OHM-B
R0219	0100081	CF 4.7K OHM $\pm$ 5% 1/8W	R0295	0100113	CF 100K OHM $\pm$ 5% 1/8W
R0220	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0296	0100111	CF 82K OHM $\pm$ 5% 1/8W
R0222	0100081	CF 4.7K OHM $\pm$ 5% 1/8W	R0297	0100111	CF 82K OHM $\pm$ 5% 1/8W
R0223	0100081	CF 4.7K OHM $\pm$ 5% 1/8W	R0298	0100077	CF 3.3K OHM $\pm$ 5% 1/8W
R0227	0100081	CF 4.7K OHM $\pm$ 5% 1/8W	R0299	0100081	CF 4.7K OHM $\pm$ 5% 1/8W
R0228	0100073	CF 2.2K OHM $\pm$ 5% 1/8W	R0301	0100047	CF 130 OHM $\pm$ 5% 1/8W
R0229	0100107	CF 56K OHM $\pm$ 5% 1/8W	R0302	0100097	CF 22K OHM $\pm$ 5% 1/8W
R0230	0100107	CF 56K OHM $\pm$ 5% 1/8W	R0303	0100113	CF 100K OHM $\pm$ 5% 1/8W
R0231	0100065	CF 1K OHM $\pm$ 5% 1/8W	R0304	0100081	CF 4.7K OHM $\pm$ 5% 1/8W
R0232	0100107	CF 56K OHM $\pm$ 5% 1/8W	R0306	0100097	CF 22K OHM $\pm$ 5% 1/8W
R0235	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R0307	0100079	CF 3.9K OHM $\pm$ 5% 1/8W
R0236	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R0308	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0237	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R0309	0100093	CF 15K OHM $\pm$ 5% 1/8W
R0238	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R0310	0100093	CF 15K OHM $\pm$ 5% 1/8W
R0239	0100117	CF 150K OHM $\pm$ 5% 1/8W	R0311	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0248	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0312	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0249	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0313	0100053	CF 330 OHM $\pm$ 5% 1/8W
R0250	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0314	0150036	VR 2K OHM-B RS-B
R0251	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0315	0100081	CF 4.7K OHM $\pm$ 5% 1/8W
R0252	0100113	CF 100K OHM $\pm$ 5% 1/8W	R0316	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0253	0100113	CF 100K OHM $\pm$ 5% 1/8W	R0318	0100077	CF 3.3K OHM $\pm$ 5% 1/8W
R0254	0100113	CF 100K OHM $\pm$ 5% 1/8W	R0320	0100081	CF 4.7K OHM $\pm$ 5% 1/8W
R0255	0100113	CF 100K OHM $\pm$ 5% 1/8W	R0321	0100089	CF 10K OHM $\pm$ 5% 1/8W
R0256	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0322	0100063	CF 820 OHM $\pm$ 5% 1/8W
R0257	0100113	CF 100K OHM $\pm$ 5% 1/8W	R0323	0100045	CF 150 OHM $\pm$ 5% 1/8W
R0258	0100065	CF 1K OHM $\pm$ 5% 1/8W	R0325	0100097	CF 22K OHM $\pm$ 5% 1/8W
R0259	0100089	CF 10K OHM $\pm$ 5% 1/8W	R0326	0100091	CF 12K OHM $\pm$ 5% 1/8W
R0260	0100097	CF 22K OHM $\pm$ 5% 1/8W	R0327	0100069	CF 1.5K OHM $\pm$ 5% 1/8W

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R0328	0100089	CF 10K OHM $\pm$ 5% 1/8W	R203	0100127	CF 390K OHM $\pm$ 5% 1/8W
R0329	0100073	CF 2.2K OHM $\pm$ 5% 1/8W	R204	0100055	CF 340 OHM $\pm$ 5% 1/8W
R0331	0100055	CF 390 OHM $\pm$ 5% 1/8W	R205	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0332	0100065	CF 1K OHM $\pm$ 5% 1/8W	R206	0150037	VR 5K OHM-B RS-B
R0340	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R207	0100079	CF 3.9K OHM $\pm$ 5% 1/8W
R0341	0100053	CF 330 OHM $\pm$ 5% 1/8W	R209	0100091	CF 17K OHM $\pm$ 5% 1/8W
R0344	0100077	CF 3.3K OHM $\pm$ 5% 1/8W	R210	0100080	CF 4.3K OHM $\pm$ 5% 1/8W
R0345	0100089	CF 10K OHM $\pm$ 5% 1/8W	R211	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0346	0100097	CF 22K OHM $\pm$ 5% 1/8W	R212	0100107	CF 56K OHM $\pm$ 5% 1/8W
R0349	0100065	CF 1K OHM $\pm$ 5% 1/8W	R213	0100111	CF 82K OHM $\pm$ 5% 1/8W
R0352	0100081	CF 4.7K OHM $\pm$ 5% 1/8W	R216	0100071	CF 1.0K OHM $\pm$ 5% 1/8W
R0353	0100065	CF 1K OHM $\pm$ 5% 1/8W	R217	0100050	CF 240 OHM $\pm$ 5% 1/8W
R0354	0100065	CF 1K OHM $\pm$ 5% 1/8W	R218	0100053	CF 330 OHM $\pm$ 5% 1/8W
R0355	0100065	CF 1K OHM $\pm$ 5% 1/8W	R219	0100065	CF 1K OHM $\pm$ 5% 1/8W
R0356	0100065	CF 1K OHM $\pm$ 5% 1/8W	R221	0150036	VR 2K OHM-B RS-B
R0357	0100065	CF 1K OHM $\pm$ 5% 1/8W	R225	0100023	CF 1K OHM $\pm$ 5% 1/8W
R0358	0100089	CF 10K OHM $\pm$ 5% 1/8W	R3001	0114062	CF 7K OHM $\pm$ 5% 1/4W
R0360	0100065	CF 1K OHM $\pm$ 5% 1/8W	R3002	0100041	CF 100 OHM $\pm$ 5% 1/8W
R0361	0100065	CF 1K OHM $\pm$ 5% 1/8W	R3003	0100041	CF 100 OHM $\pm$ 5% 1/8W
R0362	0100065	CF 1K OHM $\pm$ 5% 1/8W	R3004	0114062	CF 7K OHM $\pm$ 5% 1/4W
R0363	0100069	CF 1.5K OHM $\pm$ 5% 1/8W	R3005	0100041	CF 100 OHM $\pm$ 5% 1/8W
R0364	0100117	CF 150K OHM $\pm$ 5% 1/8W	R3006	0100041	CF 100 OHM $\pm$ 5% 1/8W
R071	0100036	CF 75 OHM $\pm$ 5% 1/8W	R3007	0114143	CF 330 OHM $\pm$ 5% 1/4W
R072	0100017	CF 10 OHM $\pm$ 5% 1/8W	R3008	0119508	FR 5K OHM $\pm$ 5% 1/4W
R073	0100077	CF 3.3K OHM $\pm$ 5% 1/8W	R3009	0113725	CF 100 OHM $\pm$ 5% 1/2W
R074	0100067	CF 1.2K OHM $\pm$ 5% 1/8W	R3010	0100113	CF 100K OHM $\pm$ 5% 1/8W
R075	0100025	CF 22 OHM $\pm$ 5% 1/8W	R3011	0113721	CF 6K OHM $\pm$ 5% 1/2W
R076	0100045	CF 150 OHM $\pm$ 5% 1/3W	R3012	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R077	0100049	CF 220 OHM $\pm$ 5% 1/3W	R3013	0100065	CF 1K OHM $\pm$ 5% 1/8W
R101	0100065	CF 1K OHM $\pm$ 5% 1/8W	R3014	0100113	CF 100K OHM $\pm$ 5% 1/8W
R151	0100079	CF 3.9K OHM $\pm$ 5% 1/8W	R3015	0100065	CF 1K OHM $\pm$ 5% 1/8W
R152	0100081	CF 4.7K OHM $\pm$ 5% 1/8W	R3016	0100065	CF 1K OHM $\pm$ 5% 1/8W
R153	0100075	CF 2.7K OHM $\pm$ 5% 1/8W	R3017	0114143	CF 330 OHM $\pm$ 5% 1/4W
R154	0150433	VR RV-12 10K OHM-B	R3018	0114143	CF 330 OHM $\pm$ 5% 1/4W
R155	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R3019	0100089	CF 10K OHM $\pm$ 5% 1/8W
R156	0150433	VR RV-12 10K OHM-B	R3020	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R157	0100079	CF 3.9K OHM $\pm$ 5% 1/8W	R3021	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R158	0150429	VR 500 OHM-B RV-12	R3022	0100065	CF 1K OHM $\pm$ 5% 1/8W
R159	0100093	CF 15K OHM $\pm$ 5% 1/8W	R3023	0100065	CF 1K OHM $\pm$ 5% 1/8W
R160	0100087	CF 8.2K OHM $\pm$ 5% 1/8W	R3024	0100065	CF 1K OHM $\pm$ 5% 1/8W
R161	0150433	VR RV-12 10K OHM-B	R3025	0100065	CF 1K OHM $\pm$ 5% 1/8W
R162	0100077	CF 3.3K OHM $\pm$ 5% 1/8W	R303	0100043	CF 120 OHM $\pm$ 5% 1/8W
R163	0150431	VR RV-12 1K OHM-C	R304	0100053	CF 330 OHM $\pm$ 5% 1/8W
R164	0150423	VR RV-12 5K OHM-B	R306	0100053	CF 330 OHM $\pm$ 5% 1/8W
R167	0150424	VR RV-12 10K OHM-B	R308	0100044	CF 130 OHM $\pm$ 5% 1/8W
R168	0150424	VR RV-12 10K OHM-B	R310	0100093	CF 15K OHM $\pm$ 5% 1/8W
R169	0150433	VR RV-12 10K OHM-B	R311	0151716	VR 5K OHM-B RV-B
R171	0100065	CF 1K OHM $\pm$ 5% 1/8W	R312	0100075	CF 2.7K OHM $\pm$ 5% 1/8W
R201	0100053	CF 330 OHM $\pm$ 5% 1/8W	R313	0100049	CF 220 OHM $\pm$ 5% 1/8W
R202	0100065	CF 1K OHM $\pm$ 5% 1/8W	R314	0100109	CF 68K OHM $\pm$ 5% 1/8W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R315	0100089	CF 10K OHM $\pm$ 5% 1/3W	R4015	0100089	CF 10K OHM $\pm$ 5% 1/8W
R316	0100089	CF 10K OHM $\pm$ 5% 1/8W	R4016	0100101	CF 33K OHM $\pm$ 5% 1/8W
R317	0100055	CF 390 OHM $\pm$ 5% 1/3W	R4017	0100101	CF 33K OHM $\pm$ 5% 1/3W
R318	0100099	CF 27K OHM $\pm$ 5% 1/3W	R4018	0100053	CF 330 OHM $\pm$ 5% 1/8W
R319	0114145	CF 390 OHM $\pm$ 5% 1/4W	R4019	0100059	CF 560 OHM $\pm$ 5% 1/8W
R320	0100091	CF 12K OHM $\pm$ 5% 1/8W	R4020	0100065	CF 1K OHM $\pm$ 5% 1/8W
R321	0100091	CF 12K OHM $\pm$ 5% 1/8W	R4020	0100113	CF 100K OHM $\pm$ 5% 1/8W
R322	0100061	CF 680 OHM $\pm$ 5% 1/8W	R4021	0100065	CF 1K OHM $\pm$ 5% 1/8W
R323	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4022	0100113	CF 100K OHM $\pm$ 5% 1/8W
R324	0100091	CF 12K OHM $\pm$ 5% 1/4W	R4023	0100089	CF 10K OHM $\pm$ 5% 1/8W
R327	0100041	CF 100 OHM $\pm$ 5% 1/8W	R4024	0100101	CF 33K OHM $\pm$ 5% 1/8W
R330	0100041	CF 100 OHM $\pm$ 5% 1/3W	R4025	0100101	CF 33K OHM $\pm$ 5% 1/8W
R351	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4026	0100053	CF 330 OHM $\pm$ 5% 1/8W
R352	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4027	0100059	CF 560 OHM $\pm$ 5% 1/8W
R353	0100059	CF 560 OHM $\pm$ 5% 1/3W	R4028	0100113	CF 100K OHM $\pm$ 5% 1/8W
R354	0100073	CF 2.2K OHM $\pm$ 5% 1/8W	R4029	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R355	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4030	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R356	0114137	CF 100 OHM $\pm$ 5% 1/4W	R4031	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R357	0150017	VR 200 OHM-B	R4032	0100083	CF 5.6K OHM $\pm$ 5% 1/8W
R358	0100050	CF 240 OHM $\pm$ 5% 1/8W	R4033	0100065	CF 1K OHM $\pm$ 5% 1/8W
R359	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4034	0100065	CF 1K OHM $\pm$ 5% 1/8W
R360	0100069	CF 1.5K OHM $\pm$ 5% 1/8W	R4035	0100065	CF 1K OHM $\pm$ 5% 1/8W
R361	0100077	CF 3.3K OHM $\pm$ 5% 1/8W	R4036	0100065	CF 1K OHM $\pm$ 5% 1/8W
R362	0100067	CF 1.2K OHM $\pm$ 5% 1/8W	R4037	0100065	CF 1K OHM $\pm$ 5% 1/8W
R363	0100039	CF 82 OHM $\pm$ 5% 1/8W	R4038	0100065	CF 1K OHM $\pm$ 5% 1/8W
R364	0100113	CF 100K OHM $\pm$ 5% 1/8W	R404	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R365	0100085	CF 6.8K OHM $\pm$ 5% 1/8W	R4043	0100065	CF 1K OHM $\pm$ 5% 1/8W
R366	0100069	CF 1.5K OHM $\pm$ 5% 1/8W	R4044	0114147	CF 470 OHM $\pm$ 5% 1/8W
R367	0100089	CF 10K OHM $\pm$ 5% 1/3W	R4045	0100097	CF 22K OHM $\pm$ 5% 1/8W
R368	0100077	CF 3.3K OHM $\pm$ 5% 1/8W	R4046	0100111	CF 82K OHM $\pm$ 5% 1/8W
R369	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4047	0100071	CF 1.8K OHM $\pm$ 5% 1/8W
R370	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4048	0100045	CF 150 OHM $\pm$ 5% 1/8W
R371	0100073	CF 2.2K OHM $\pm$ 5% 1/8W	R4049	0100081	CF 4.7K OHM $\pm$ 5% 1/8W
R376	0100049	CF 220 OHM $\pm$ 5% 1/8W	R405	0100063	CF 820 OHM $\pm$ 5% 1/8W
R385	0100062	CF 750 OHM $\pm$ 5% 1/8W	R4050	0100045	CF 150 OHM $\pm$ 5% 1/8W
R4001	0100107	CF 56K OHM $\pm$ 5% 1/3W	R4051	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R4002	0100107	CF 56K OHM $\pm$ 5% 1/3W	R4052	0100065	CF 1K OHM $\pm$ 5% 1/8W
R4003	0100107	CF 56K OHM $\pm$ 5% 1/8W	R4053	0100109	CF 68K OHM $\pm$ 5% 1/8W
R4004	0100107	CF 56K OHM $\pm$ 5% 1/3W	R4054	0100125	CF 330K OHM $\pm$ 5% 1/8W
R4005	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4055	0110125	MF 150 OHM $\pm$ 5% 1W
R4006	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4056	0110169	MF 10K OHM $\pm$ 5% 1W
R4007	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4058	0100109	CF 68K OHM $\pm$ 5% 1/8W
R4008	0100065	CF 1K OHM $\pm$ 5% 1/8W	R406	0110113	MF 47 OHM $\pm$ 5% 1W
R4009	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4060	0100089	CF 10K OHM $\pm$ 5% 1/8W
R401	0100057	CF 470 OHM $\pm$ 5% 1/8W	R4061	0100052	CF 300 OHM $\pm$ 5% 1/8W
R4010	0100065	CF 1K OHM $\pm$ 5% 1/8W	R4062	0100107	CF 56K OHM $\pm$ 5% 1/8W
R4011	0100065	CF 1K OHM $\pm$ 5% 1/8W	R410	0100057	CF 470 OHM $\pm$ 5% 1/8W
R4012	0100065	CF 1K OHM $\pm$ 5% 1/8W	R411	0100053	CF 330 OHM $\pm$ 5% 1/8W
R4013	0100065	CF 1K OHM $\pm$ 5% 1/8W	R412	0100065	CF 1K OHM $\pm$ 5% 1/8W
R4014	0100113	CF 100K OHM $\pm$ 5% 1/8W	R413	0100051	CF 270 OHM $\pm$ 5% 1/8W

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R420	0100071	CF 1.8K OHM $\pm$ 5% 1/8W	R5033	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R421	0100039	CF 82 OHM $\pm$ 5% 1/8W	R5034	0100097	CF 22K OHM $\pm$ 5% 1/8W
R422	0100097	CF 22K OHM $\pm$ 5% 1/8W	R5035	0150038	VR 10K OHM-B RS-B
R423	0100111	CF 82K OHM $\pm$ 5% 1/8W	R5036	0100089	CF 10K OHM $\pm$ 5% 1/8W
R424	0100081	CF 4.7K OHM $\pm$ 5% 1/8W	R5037	0100097	CF 22K OHM $\pm$ 5% 1/8W
R425	0100045	CF 150 OHM $\pm$ 5% 1/8W	R5038	0150038	VR 10K OHM-B RS-B
R426	0100073	CF 2.2K OHM $\pm$ 5% 1/8W	R5039	0100089	CF 10K OHM $\pm$ 5% 1/8W
R427	0100061	CF 680 OHM $\pm$ 5% 1/8W	R504	0100079	CF 3.9K OHM $\pm$ 5% 1/8W
R428	0100125	CF 330K OHM $\pm$ 5% 1/8W	R5040	0100053	CF 330 OHM $\pm$ 5% 1/8W
R429	0100109	CF 68K OHM $\pm$ 5% 1/8W	R5044	0100053	CF 330 OHM $\pm$ 5% 1/8W
R430	0110145	MF 1K OHM $\pm$ 5% 1W	R5048	0100053	CF 330 OHM $\pm$ 5% 1/8W
R431	0110169	MF 10K OHM $\pm$ 5% 1W	R505	0150084	VR 50K OHM-A RS-B
R432	0110125	MF 150 OHM $\pm$ 5% 1W	R5052	0100049	CF 220 OHM $\pm$ 5% 1/8W
R433	0100109	CF 68K OHM $\pm$ 5% 1/8W	R5053	0100041	CF 100 OHM $\pm$ 5% 1/8W
R434	0114147	CF 470 OHM $\pm$ 5% 1/4W	R5054	0114145	CF 390 OHM $\pm$ 5% 1/4W
R441	0113737	CF 330 OHM $\pm$ 5% 1/2W	R5058	0100049	CF 220 OHM $\pm$ 5% 1/8W
R5001	0100057	CF 470 OHM $\pm$ 5% 1/8W	R5059	0100049	CF 220 OHM $\pm$ 5% 1/8W
R5002	0100041	CF 100 OHM $\pm$ 5% 1/8W	R506	0100099	CF 27K OHM $\pm$ 5% 1/8W
R5003	0100057	CF 470 OHM $\pm$ 5% 1/3W	R5060	0100049	CF 220 OHM $\pm$ 5% 1/8W
R5004	0100041	CF 100 OHM $\pm$ 5% 1/8W	R5061	0100049	CF 220 OHM $\pm$ 5% 1/8W
R5005	0100057	CF 470 OHM $\pm$ 5% 1/2W	R5063	0100049	CF 220 OHM $\pm$ 5% 1/8W
R5006	0100041	CF 100 OHM $\pm$ 5% 1/8W	R5064	0100049	CF 220 OHM $\pm$ 5% 1/8W
R5007	0100053	CF 330 OHM $\pm$ 5% 1/8W	R5065	0100049	CF 220 OHM $\pm$ 5% 1/8W
R5008	0100053	CF 330 OHM $\pm$ 5% 1/8W	R5066	0100055	CF 390 OHM $\pm$ 5% 1/8W
R5009	0100053	CF 330 OHM $\pm$ 5% 1/8W	R5067	0100057	CF 470 OHM $\pm$ 5% 1/8W
R501	0100065	CF 1K OHM $\pm$ 5% 1/8W	R5068	0100065	CF 1K OHM $\pm$ 5% 1/8W
R5010	0100067	CF 1.2K OHM $\pm$ 5% 1/8W	R5069	0100041	CF 100 OHM $\pm$ 5% 1/8W
R5011	0100067	CF 1.2K OHM $\pm$ 5% 1/8W	R5070	0100067	CF 1.2K OHM $\pm$ 5% 1/8W
R5012	0100067	CF 1.2K OHM $\pm$ 5% 1/8W	R5071	0100067	CF 1.2K OHM $\pm$ 5% 1/8W
R5013	0100082	CF 5.1K OHM $\pm$ 5% 1/8W	R5072	0100067	CF 1.2K OHM $\pm$ 5% 1/8W
R5014	0100065	CF 1K OHM $\pm$ 5% 1/8W	R5074	0150035	VR 1K OHM-B RS-B
R5015	0100074	CF 2.4K OHM $\pm$ 5% 1/8W	R5076	0150035	VR 1K OHM-B RS-B
R5016	0100097	CF 22K OHM $\pm$ 5% 1/8W	R5078	0150035	VR 1K OHM-B RS-B
R5017	0100067	CF 1.2K OHM $\pm$ 5% 1/8W	R5082	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R5018	0100082	CF 5.1K OHM $\pm$ 5% 1/8W	R5085	0100089	CF 10K OHM $\pm$ 5% 1/8W
R5019	0100065	CF 1K OHM $\pm$ 5% 1/8W	R5086	0100109	CF 68K OHM $\pm$ 5% 1/8W
R502	0100113	CF 100K OHM $\pm$ 5% 1/8W	R5087	0150068	VR 10K OHM-B
R5020	0100074	CF 2.4K OHM $\pm$ 5% 1/8W	R5088	0100095	CF 16K OHM $\pm$ 5% 1/8W
R5022	0100089	CF 10K OHM $\pm$ 5% 1/8W	R5090	0150068	VR 10K OHM-B
R5023	0100073	CF 2.2K OHM $\pm$ 5% 1/8W	R5091	0100065	CF 1K OHM $\pm$ 5% 1/8W
R5024	0100089	CF 10K OHM $\pm$ 5% 1/8W	R5092	0100065	CF 1K OHM $\pm$ 5% 1/8W
R5025	0100089	CF 10K OHM $\pm$ 5% 1/8W	R5093	0100079	CF 3.9K OHM $\pm$ 5% 1/8W
R5026	0100089	CF 10K OHM $\pm$ 5% 1/8W	R510	0100067	CF 1.2K OHM $\pm$ 5% 1/8W
R5027	0100097	CF 22K OHM $\pm$ 5% 1/8W	R511	0100057	CF 470 OHM $\pm$ 5% 1/8W
R5028	0100089	CF 10K OHM $\pm$ 5% 1/8W	R512	0150040	VR 50K OHM-B RS-B
R5029	0100061	CF 680 OHM $\pm$ 5% 1/8W	R513	0100120	CF 20K OHM $\pm$ 5% 1/8W
R503	0100121	CF 220K OHM $\pm$ 5% 1/8W	R514	0100062	CF 750 OHM $\pm$ 5% 1/8W
R5030	0100049	CF 220 OHM $\pm$ 5% 1/8W	R515	0100069	CF 1.5K OHM $\pm$ 5% 1/8W
R5031	0100097	CF 22K OHM $\pm$ 5% 1/8W	R516	0100073	CF 2.2K OHM $\pm$ 5% 1/8W
R5032	0100089	CF 10K OHM $\pm$ 5% 1/8W	R517	0100084	CF 6.2K OHM $\pm$ 5% 1/8W



**PRODUCT SAFETY NOTE:** Components marked with a  $\Delta$  have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R518	0100089	CF 10K OHM $\pm$ 5% 1/8W	R715	0114281	CF 100K OHM $\pm$ 5% 1/4W
R519	0100089	CF 10K OHM $\pm$ 5% 1/8W	R716	0113772	CF 8.2K OHM $\pm$ 5% 1/2W
R523	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R717	0110241	MF 680 OHM $\pm$ 5% 2W
R524	0100079	CF 3.9K OHM $\pm$ 5% 1/8W	$\Delta$ R718	0119505	FR 2.2 OHM $\pm$ 5% 1/4W
R525	0100079	CF 3.9K OHM $\pm$ 5% 1/8W	$\Delta$ R719	0100093	CF 15K OHM $\pm$ 5% 1/8W
R526	0100079	CF 3.9K OHM $\pm$ 5% 1/8W			
R527	0100053	CF 330 OHM $\pm$ 5% 1/8W	R721	0113762	CF 3.3K OHM $\pm$ 5% 1/2W
R528	0100053	CF 330 OHM $\pm$ 5% 1/8W	R722	0113748	CF 820 OHM $\pm$ 5% 1/2W
R529	0100053	CF 330 OHM $\pm$ 5% 1/8W	R723	0100071	CF 1.8K OHM $\pm$ 5% 1/8W
R551	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R725	0113774	CF 10K OHM $\pm$ 5% 1/2W
R601	0100055	CF 390 OHM $\pm$ 5% 1/8W	R726	0141071	WW 4.7 OHM $\pm$ 5% 6W
R602	0100047	CF 180 OHM $\pm$ 5% 1/4W	R733	0119512	MF 1 OHM $\pm$ 5% 1W
R603	0100087	CF 8.2K OHM $\pm$ 5% 1/8W	R734	0119512	MF 1 OHM $\pm$ 5% 1W
R604	0100097	CF 22K OHM $\pm$ 5% 1/8W	$\Delta$ R735	0100065	CF 1K OHM $\pm$ 5% 1/8W
R605	0111772	MF 680 OHM $\pm$ 5% 5W	R736	0100093	CF 15K OHM $\pm$ 5% 1/8W
R606	0113762	CF 3.3K OHM $\pm$ 5% 1/2W	$\Delta$ R737	0100080	CF 4.3K OHM $\pm$ 5% 1/8W
R607	0114041	CF 10 OHM $\pm$ 5% 1/4W	R741	0114133	CF 120 OHM $\pm$ 5% 1/4W
R608	0100065	CF 1K OHM $\pm$ 5% 1/8W	R850	0100045	CF 150 OHM $\pm$ 5% 1/8W
R609	0113762	CF 3.3K OHM $\pm$ 5% 1/2W	R852	0100067	CF 1.2K OHM $\pm$ 5% 1/8W
R610	0100091	CF 12K OHM $\pm$ 5% 1/8W	R853	0151716	VR 5K OHM-B RV-8
R611	0100073	CF 2.2K OHM $\pm$ 5% 1/8W	R854	0100050	CF 240 OHM $\pm$ 5% 1/8W
R612	0100089	CF 10K OHM $\pm$ 5% 1/8W	R856	0150001	VR 200 OHM-B
R613	0114014	CF 7.5 OHM $\pm$ 5% 1/4W	R858	0100067	CF 1.2K OHM $\pm$ 5% 1/8W
R614	0150034	VR 500 OHM-B RS-B	R859	0151716	VR 5K OHM-B RV-8
R615	0100055	CF 390 OHM $\pm$ 5% 1/8W	R860	0100047	CF 130 OHM $\pm$ 5% 1/8W
R616	0113762	CF 3.3K OHM $\pm$ 5% 1/2W	R862	0150001	VR 200 OHM-B
R617	0114173	CF 3.3K OHM $\pm$ 5% 1/4W	R864	0100067	CF 1.2K OHM $\pm$ 5% 1/8W
R618	0100055	CF 390 OHM $\pm$ 5% 1/8W	R865	0151716	VR 5K OHM-B RV-8
R619	0100089	CF 10K OHM $\pm$ 5% 1/8W	R867	0113754	CF 1.5K OHM $\pm$ 5% 1/2W
R620	0100080	CF 4.3K OHM $\pm$ 5% 1/8W	R868	0113760	CF 2.7K OHM $\pm$ 5% 1/2W
R621	0100053	CF 330 OHM $\pm$ 5% 1/8W	R869	0113754	CF 1.5K OHM $\pm$ 5% 1/2W
R622	0100041	CF 100 OHM $\pm$ 5% 1/8W	R877	0110271	MF 12K OHM $\pm$ 5% 2W
R623	0100111	CF 82K OHM $\pm$ 5% 1/8W	R878	0110271	MF 12K OHM $\pm$ 5% 2W
R624	0114133	CF 120 OHM $\pm$ 5% 1/4W	R879	0110271	MF 12K OHM $\pm$ 5% 2W
R626	0100041	CF 100 OHM $\pm$ 5% 1/8W	R901	0139015	GC 1M OHM $\pm$ 10% 1/2W
R630	0110171	MF 12K OHM $\pm$ 5% 1W	$\Delta$ R902	0141066	WW 2.7 OHM $\pm$ 5% 8W
$\Delta$ R701	0110367	MF 8.2K OHM $\pm$ 5% 3W	R903	0141102	WW 1.2 OHM 6W
$\Delta$ R702	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R904	0113786	CF 30K OHM $\pm$ 5% 1/2W
$\Delta$ R703	0150037	VR 5K OHM-B RS-B	R905	0113786	CF 30K OHM $\pm$ 5% 1/2W
R704	0100109	CF 60K OHM $\pm$ 5% 1/8W	$\Delta$ R906	0110326	MF 160 OHM $\pm$ 5% 3W
R705	0100085	CF 6.8K OHM $\pm$ 5% 1/8W	R907	0114049	CF 22 OHM $\pm$ 5% 1/4W
R706	0100033	CF 47 OHM $\pm$ 5% 1/8W	R908	0100107	CF 56K OHM $\pm$ 5% 1/8W
$\Delta$ R707	0100083	CF 5.6K OHM $\pm$ 5% 1/8W	R909	0100090	CF 11K OHM $\pm$ 5% 1/8W
R708	0113785	CF 27K OHM $\pm$ 5% 1/2W	R912	0100081	CF 4.7K OHM $\pm$ 5% 1/8W
R709	0110363	MF 5.6K OHM $\pm$ 5% 3W	R913	0110271	MF 12K OHM $\pm$ 5% 2W
R710	0100075	CF 2.7K OHM $\pm$ 5% 1/8W	R914	0100071	CF 1.8K OHM $\pm$ 5% 1/8W
$\Delta$ R711	0119505	FR 2.2 OHM $\pm$ 5% 1/4W	R915	0100105	CF 47K OHM $\pm$ 5% 1/8W
$\Delta$ R712	0119512	MF 1 OHM $\pm$ 5% 1W	R916	0114153	CF 820 OHM $\pm$ 5% 1/4W
$\Delta$ R713	0119505	FR 2.2 OHM $\pm$ 5% 1/4W	R917	0100077	CF 3.3K OHM $\pm$ 5% 1/8W
$\Delta$ R714	0119690	FR 0.27 OHM $\pm$ 5% 1W	R918	0100105	CF 47K OHM $\pm$ 5% 1/8W

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R919	0100113	CF 100K OHM $\pm$ 5% 1/8W	Q0202	2320663	TR 2SC1213AC
R921	0100104	CF 43K OHM $\pm$ 5% 1/8W	Q0204	2320845	TR 2SC1162W (C)/(D)
R922	0100089	CF 10K OHM $\pm$ 5% 1/8W	Q0205	2320644	TR 2SC1213D
R923	0100080	CF 4.3K OHM $\pm$ 5% 1/8W	Q0208	2322191	TR 2SC174C(R)
R924	0100047	CF 180 OHM $\pm$ 5% 1/8W	Q0211	2320637	TR 2SA673C/D
$\Delta$ R925	0100064	CF 910 OHM $\pm$ 5% 1/8W	Q0212	2320637	TR 2SA673C/D
$\Delta$ R926	0150034	VR 500 OHM-B RS-B	Q0214	0573480	TR 2SC458B
$\Delta$ R927	0100069	CF 1.5K OHM $\pm$ 5% 1/8W	Q0215	0573480	TR 2SC458B
$\Delta$ R928	0113791	CF 47K OHM $\pm$ 5% 1/2W	Q0216	0573480	TR 2SC458B
R929	0100091	CF 12K OHM $\pm$ 5% 1/8W	Q0217	0573480	TR 2SC458B
R930	0100103	CF 39K OHM $\pm$ 5% 1/8W	Q0218	2322191	TR 2SC174C(R)
R931	0100092	CF 13K OHM $\pm$ 5% 1/8W	Q0219	2320637	TR 2SA673C/D
R932	0114213	CF 33K OHM $\pm$ 5% 1/4W	Q0220	2322191	TR 2SC174C(R)
R933	0100075	CF 2.7K OHM $\pm$ 5% 1/8W	Q0221	2320644	TR 2SC1213D
R934	0114165	CF 1.5K OHM $\pm$ 5% 1/8W	Q0222	2320637	TR 2SA673C/D
R935	0114177	CF 4.7K OHM $\pm$ 5% 1/4W	Q0226	0573480	TR 2SC458B
R936	0110119	MF 82 OHM $\pm$ 5% 1W	Q071	2320143	TR 2SC717TM
$\Delta$ R937	0119505	FR 2.2 OHM $\pm$ 5% 1/4W	Q101	2321984	TR 2SC206C(P)
R938	0100065	CF 1K OHM $\pm$ 5% 1/8W	Q201	0573480	TR 2SC458B
R941	0100065	CF 1K OHM $\pm$ 5% 1/8W	Q223	2320637	TR 2SA673C/D
R943	0100129	CF 470K OHM $\pm$ 5% 1/8W	Q3001	2320644	TR 2SC1213D
R945	0190010	WW 2.2 OHM $\pm$ 10% RG2P	Q3002	2321351	TR 2SA836/844 D/E
R946	0190010	WW 2.2 OHM $\pm$ 10% RG2P	Q3003	2321351	TR 2SA836/844 D/E
$\Delta$ R956	0139015	GC 1M OHM $\pm$ 10% 1/2W	Q3004	2320595	TR 2SC458D
$\Delta$ R959	0119505	FR 2.2 OHM $\pm$ 5% 1/4W	Q3005	0573480	TR 2SC458B
			Q3006	0573480	TR 2SC458B
			Q3007	0573480	TR 2SC458B
			Q3008	0573480	TR 2SC458B
			Q3009	0573480	TR 2SC458B
			Q3010	0573480	TR 2SC458B
			Q3011	0573480	TR 2SC458B
			Q3012	0573480	TR 2SC458B
			Q3013	0573480	TR 2SC458B
			Q3014	0573480	TR 2SC458B
			Q3015	0573480	TR 2SC458B
			Q3016	0573480	TR 2SC458B
			Q3017	0573480	TR 2SC458B
			Q3018	0573480	TR 2SC458B
			Q3019	0573480	TR 2SC458B
			Q3020	0573480	TR 2SC458B
			Q3021	0573480	TR 2SC458B
			Q3022	0573480	TR 2SC458B
			Q3023	0573480	TR 2SC458B
			Q3024	0573480	TR 2SC458B
			Q3025	0573480	TR 2SC458B
			Q3026	0573480	TR 2SC458B
			Q3027	0573480	TR 2SC458B
			Q3028	0573480	TR 2SC458B
			Q3029	0573480	TR 2SC458B
			Q3030	0573480	TR 2SC458B
			Q3031	0573480	TR 2SC458B
			Q3032	0573480	TR 2SC458B
			Q3033	0573480	TR 2SC458B
			Q3034	0573480	TR 2SC458B
			Q3035	0573480	TR 2SC458B
			Q3036	0573480	TR 2SC458B
			Q3037	0573480	TR 2SC458B
			Q3038	0573480	TR 2SC458B
			Q3039	0573480	TR 2SC458B
			Q3040	0573480	TR 2SC458B
			Q3041	0573480	TR 2SC458B
			Q3042	0573480	TR 2SC458B
			Q3043	0573480	TR 2SC458B
			Q3044	0573480	TR 2SC458B
			Q3045	0573480	TR 2SC458B
			Q3046	0573480	TR 2SC458B
			Q3047	0573480	TR 2SC458B
			Q3048	0573480	TR 2SC458B
			Q3049	0573480	TR 2SC458B
			Q3050	0573480	TR 2SC458B
			Q3051	0573480	TR 2SC458B
			Q3052	0573480	TR 2SC458B
			Q3053	0573480	TR 2SC458B
			Q3054	0573480	TR 2SC458B
			Q3055	0573480	TR 2SC458B
			Q3056	0573480	TR 2SC458B
			Q3057	0573480	TR 2SC458B
			Q3058	0573480	TR 2SC458B
			Q3059	0573480	TR 2SC458B
			Q3060	0573480	TR 2SC458B
			Q3061	0573480	TR 2SC458B
			Q3062	0573480	TR 2SC458B
			Q3063	0573480	TR 2SC458B
			Q3064	0573480	TR 2SC458B
			Q3065	0573480	TR 2SC458B
			Q3066	0573480	TR 2SC458B
			Q3067	0573480	TR 2SC458B
			Q3068	0573480	TR 2SC458B
			Q3069	0573480	TR 2SC458B
			Q3070	0573480	TR 2SC458B
			Q3071	0573480	TR 2SC458B
			Q3072	0573480	TR 2SC458B
			Q3073	0573480	TR 2SC458B
			Q3074	0573480	TR 2SC458B
			Q3075	0573480	TR 2SC458B
			Q3076	0573480	TR 2SC458B
			Q3077	0573480	TR 2SC458B
			Q3078	0573480	TR 2SC458B
			Q3079	0573480	TR 2SC458B
			Q3080	0573480	TR 2SC458B
			Q3081	0573480	TR 2SC458B
			Q3082	0573480	TR 2SC458B
			Q3083	0573480	TR 2SC458B
			Q3084	0573480	TR 2SC458B
			Q3085	0573480	TR 2SC458B
			Q3086	0573480	TR 2SC458B
			Q3087	0573480	TR 2SC458B
			Q3088	0573480	TR 2SC458B
			Q3089	0573480	TR 2SC458B
			Q3090	0573480	TR 2SC458B
			Q3091	0573480	TR 2SC458B
			Q3092	0573480	TR 2SC458B
			Q3093	0573480	TR 2SC458B
			Q3094	0573480	TR 2SC458B
			Q3095	0573480	TR 2SC458B
			Q3096	0573480	TR 2SC458B
			Q3097	0573480	TR 2SC458B
			Q3098	0573480	TR 2SC458B
			Q3099	0573480	TR 2SC458B
			Q3100	0573480	TR 2SC458B
			Q3101	0573480	

**PRODUCT SAFETY NOTE:** Components marked with a  $\Delta$  have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
Q421	Q573480	TR 2SC458B	D0224	2331351	DI 1S2076/1S2473H
Q423	2321591	TR 2SD401AK	D0225	2331351	DI 1S2076/1S2473H
Q424	2321591	TR 2SD401AK	D0228	2331351	DI 1S2076/1S2473H
Q5001	Q573480	TR 2SC458B	D0232	2331351	DI 1S2076/1S2473H
Q5002	Q573480	TR 2SC458B	D0233	2331351	DI 1S2076/1S2473H
Q5003	Q573480	TR 2SC458B	D0234	2331351	DI 1S2076/1S2473H
Q5004	Q573480	TR 2SC458B	D0235	2331351	DI 1S2076/1S2473H
Q5005	2321984	TR 2SC2061(R)	D0236	2331201	DI WC-6B
Q5006	Q573480	TR 2SC458B	D0237	2331351	DI 1S2076/1S2473H
Q5007	Q573480	TR 2SC458B	D0240	2331351	DI 1S2076/1S2473H
Q5014	2320637	TR 2SA673C/D	D0241	2331351	DI 1S2076/1S2473H
Q5016	Q573480	TR 2SC458B	D0242	2331351	DI 1S2076/1S2473H
Q5018	Q573480	TR 2SC458B	D0243	2331351	DI 1S2076/1S2473H
Q551	Q573480	TR 2SC458B	D0244	2331351	DI 1S2076/1S2473H
Q601	2324471	TR 2SD1459Q/R	D0247	2331351	DI 1S2076/1S2473H
Q602	2324471	TR 2SD1459Q/R	D3001	2331351	DI 1S2076/1S2473H
$\Delta$ Q701	2324322	TR 2SC2271/2SC2610-35	D3002	2331351	DI 1S2076/1S2473H
$\Delta$ Q702	2324411	TR 2SD1453	D3003	2331351	DI 1S2076/1S2473H
Q851	2321221	TR 2SC1514	D3004	2331351	DI 1S2076/1S2473H
Q852	2321221	TR 2SC1514	D3005	2331351	DI 1S2076/1S2473H
Q853	2321221	TR 2SC1514	D3006	2331351	DI 1S2076/1S2473H
$\Delta$ Q901	2324414	TR 2SD1455	D3007	2331351	DI 1S2076/1S2473H
$\Delta$ Q902	2321591	TR 2SD401AK	D3008	2331351	DI 1S2076/1S2473H
Q903	Q573480	TR 2SC458B	D3009	2331351	DI 1S2076/1S2473H
Q904	2323432	TR 2SC1983R/Q/Y	D301	2331351	DI 1S2076/1S2473H
$\Delta$ Q905	2324414	TR 2SD1455	D3010	2331351	DI 1S2076/1S2473H
<b>DIODES</b>			D3011	2331351	DI 1S2076/1S2473H
D0001	2332891	DI 5C303A	D3012	2331351	DI 1S2076/1S2473H
D0002	2332891	DI 5C303A	D302	2331351	DI 1S2076/1S2473H
D0101	2332431	DI PH302	D303	2331351	DI 1S2076/1S2473H
D0102	2331351	DI 1S2076/1S2473H	D304	2331351	DI 1S2076/1S2473H
D0201	2331351	DI 1S2076/1S2473H	D305	2331351	DI 1S2076/1S2473H
D0202	2331351	DI 1S2076/1S2473H	D306	2331351	DI 1S2076/1S2473H
D0203	2331351	DI 1S2076/1S2473H	D351	2331351	DI 1S2076/1S2473H
D0204	2331351	DI 1S2076/1S2473H	D352	2331351	DI 1S2076/1S2473H
D0206	2331351	DI 1S2076/1S2473H	D353	2331351	DI 1S2076/1S2473H
D0207	2331351	DI 1S2076/1S2473H	D4001	2331351	DI 1S2076/1S2473H
D0208	2331351	DI 1S2076/1S2473H	D4002	2331351	DI 1S2076/1S2473H
D0209	2331351	DI 1S2076/1S2473H	D4003	2331351	DI 1S2076/1S2473H
D0210	2331351	DI 1S2076/1S2473H	D4004	2331351	DI 1S2076/1S2473H
D0211	2331351	DI 1S2076/1S2473H	D4005	2331351	DI 1S2076/1S2473H
D0212	2331351	DI 1S2076/1S2473H	D4006	2331351	DI 1S2076/1S2473H
D0212	2331351	DI 1S2076/1S2473H	D4007	2331351	DI 1S2076/1S2473H
D0213	2331351	DI 1S2076/1S2473H	D4008	2331351	DI 1S2076/1S2473H
D0213	2331351	DI 1S2076/1S2473H	D4009	2331351	DI 1S2076/1S2473H
D0214	2331351	DI 1S2076/1S2473H	D4010	2331351	DI 1S2076/1S2473H
D0215	2331351	DI 1S2076/1S2473H	D4011	2331351	DI 1S2076/1S2473H
D0217	2331351	DI 1S2076/1S2473H	D4012	2331351	DI 1S2076/1S2473H
			D4013	2331351	DI 1S2076/1S2473H

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
D4014	2331351	DI 1S2076/1S2473H	ZD302	2331161	ZD HZ11(A)/(B)/(C)
D4015	2331351	DI 1S2076/1S2473H	ZD701	2331161	ZD HZ11(A)/(B)/(C)
D420	2331351	DI 1S2076/1S2473H	ZD702	2334303	ZD RD30EB2
D5001	2331351	DI 1S2076/1S2473H	$\Delta$ ZD703	2335181	ZD HZ20-3L
D5002	2331351	DI 1S2076/1S2473H	ZD704	2331154	ZD HZ12(A)/(B)/(C)
D5003	2331351	DI 1S2076/1S2473H	ZD741	2331154	ZD HZ12(A)/(B)/(C)
D5004	2331351	DI 1S2076/1S2473H	ZD742	2331161	ZD HZ11(A)/(B)/(C)
D5005	2331351	DI 1S2076/1S2473H	ZD743	2331161	ZD HZ11(A)/(B)/(C)
D5006	2331351	DI 1S2076/1S2473H	$\Delta$ ZD901	2331844	ZD HZ12(B)1
D5007	2331351	DI 1S2076/1S2473H	ZD904	2332423	ZD RD16EB2
D5008	2331351	DI 1S2076/1S2473H			
D5009	2331351	DI 1S2076/1S2473H	Z0201	2334312	DI RC33EB1
D5010	2331351	DI 1S2076/1S2473H	Z0202	2331807	ZD HZ6(C)1
D5011	2331351	DI 1S2076/1S2473H	Z0203	2331821	ZD HZ9(A)1
D5012	2331351	DI 1S2076/1S2473H	Z0205	2334122	ZD RC15.1EB1
D5013	2331351	DI 1S2076/1S2473H	Z0208	2330633	ZD HZ7(C)
D5014	2331351	DI 1S2076/1S2473H	Z3001	2331161	ZD HZ11(A)/(B)/(C)
D5015	2331351	DI 1S2076/1S2473H	Z3002	2331161	ZD HZ11(A)/(B)/(C)
D5016	2331351	DI 1S2076/1S2473H	Z4001	2331161	ZD HZ11(A)/(B)/(C)
D5017	2331351	DI 1S2076/1S2473H	Z4002	2331161	ZD HZ11(A)/(B)/(C)
D5018	2331351	DI 1S2076/1S2473H	Z4003	2331161	ZD HZ11(A)/(B)/(C)
D5019	2331351	DI 1S2076/1S2473H	Z4004	2331161	ZD HZ11(A)/(B)/(C)
D5020	2331351	DI 1S2076/1S2473H	Z4005	2332403	ZD RC2.7EB1
D5021	2331351	DI 1S2076/1S2473H	Z4006	2332403	ZD RC2.7EB1
D5023	2331351	DI 1S2076/1S2473H	Z5001	2331807	ZD HZ6(C)1
D5024	2331351	DI 1S2076/1S2473H	Z5002	2331161	ZD HZ11(A)/(B)/(C)
D5025	2331351	DI 1S2076/1S2473H	Z5003	2331161	ZD HZ11(A)/(B)/(C)
D5026	2331351	DI 1S2076/1S2473H	Z5004	2331161	ZD HZ11(A)/(B)/(C)
D5027	2331351	DI 1S2076/1S2473H	Z5005	2331161	ZD HZ11(A)/(B)/(C)
D601	2330351	DI 1S2076	Z5006	2331161	ZD HZ11(A)/(B)/(C)
D602	2330351	DI 1S2076	Z5007	2331161	ZD HZ11(A)/(B)/(C)
D701	2332251	DI RH1S	Z5008	2331161	ZD HZ11(A)/(B)/(C)
D702	2330352	DI 1S2076A	Z5009	2331161	ZD HZ11(A)/(B)/(C)
D703	2332141	DI RH1Z	Z5010	2331161	ZD HZ11(A)/(B)/(C)
D704	2332851	DI EH1Z	Z5011	2331161	ZD HZ11(A)/(B)/(C)
$\Delta$ D705	2332851	DI EH1Z	Z5012	2331161	ZD HZ11(A)/(B)/(C)
D706	2330352	DI 1S2076A	Z5013	2331161	ZD HZ11(A)/(B)/(C)
$\Delta$ D901	2332794	DI RB-156 LFB	Z5014	2331161	ZD HZ11(A)/(B)/(C)
$\Delta$ D902	2332251	DI RH1S	Z5015	2331161	ZD HZ11(A)/(B)/(C)
$\Delta$ D903	2333003	DI RU2AM	ZD907	2331541	ZD RD2.7EB3
$\Delta$ D904	2332242	DI RF1B	$\Delta$ ZD908	2334142	ZD RD6.2EB1
$\Delta$ D905	2333003	DI RU2AM			
D906	2331201	DI WC-6B	<b>THERMISTORS</b>		
D907	2330564	DI V11N	$\Delta$ TH901	2340521	PTC THERMISTOR
$\Delta$ D908	2332791	DI RB-151			
D909	2331201	DI WC-6B			
D914	2330256	DI V06CS			
ZD101	2331495	ZD RU5.6EB			
ZD201	2331001	ZD HZ6A			
ZD301	2331161	ZD HZ11(A)/(B)/(C)			



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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
<b>COILS</b>			<b>TRANSFORMERS</b>		
L0101	2122253	LA AXIAL COIL	T0101	2162012	COIL 36KHZ
L0201	2121706	PEAKING COIL 100MI $\pm$ -10%	T4021	2250391	SOUND OUTPUT TRANSFORMER
L0208	2122234	LA AXIAL COIL	T420	2250391	SOUND OUTPUT TRANSFORMER
L0209	2122248	LA AXIAL COIL 47 MICROH	T501	2141533	BAND PASS TRANSFORMER
L0210	2120482	FILTER COIL 100MH 10%	T702	2260021	TRANS HORIZONTAL DRIVE
L0212	2121706	PEAKING COIL 100MI $\pm$ -10%	$\Delta$ T901	2271291	SWITCHING TRANSFORMER
L0213	2121706	PEAKING COIL 100MI $\pm$ -10%	$\Delta$ T902	2271301	DRIVE TRANSFORMER
L0214	2121706	PEAKING COIL 100MI $\pm$ -10%	$\Delta$ T904	2213521	R/C POWER TRANSFORMER
L071	2141776	M7-D TYPE COIL	<b>COMPOUND COMPONENTS</b>		
L072	2122253	LA AXIAL COIL	CP201	2300073	SAW FILTER MH2063
L101	2120482	FILTER COIL 100MH 10%	MF201	2142241	CERAMIC FILTER 4.5MHZ
L202	2142061	S10-H MOLD IFT	MF401	2142001	CERAMIC FILTER 4.5MHZ
L203	2122232	LA AXIAL COIL 2.7UH	MF402	2790881	CERAMIC FILTER
L204	2142015	G TYPE MOLD IFT	M0001	2790841	CERAMIC FILTER CSE455EB
L205	2142015	G TYPE MOLD IFT	<b>FUSES</b>		
L206	2122251	LA AXIAL COIL 68 MICROH	$\Delta$ F901	2720587	FUSE 4A
L207	2122242	LA AXIAL COIL 15UH	<b>MISCELLANEOUS</b>		
L208	2122241	LA AXIAL COIL 12UH	DL351	2730901	1H DELAY LINE
L209	2122253	LA AXIAL COIL	DL352	2163292	DELAY LINE
L210	2122253	LA AXIAL COIL	$\Delta$ RL901	2640282	POWER RELAY
L3001	2122253	LA AXIAL COIL	SG051	2340037	SPARK GAP
L3002	2122253	LA AXIAL COIL	$\Delta$ SP451	2412071	SPEAKER 100X100MM
L3003	2120482	FILTER COIL 100MH 10%	$\Delta$ SP452	2412071	SPEAKER 100X100MM
L304	2122248	LA AXIAL COIL 47 MICROH	Sc201	2631722	KEY SWITCH
L305	2122248	LA AXIAL COIL 47 MICROH	Sc202	2631722	KEY SWITCH
L306	2122249	LA AXIAL COIL 56UH	Sc203	2631722	KEY SWITCH
L351	2141148	1H DL COIL	Sc204	2631722	KEY SWITCH
L352	2121706	PEAKING COIL 100MI $\pm$ -10%	Sc205	2631722	KEY SWITCH
L353	2141148	1H DL COIL	Sc206	2631722	KEY SWITCH
L401	2122251	LA AXIAL COIL 68 MICROH	Sc207	2631722	KEY SWITCH
L402	2122253	LA AXIAL COIL	Sc208	2620671	SLIDE SWITCH
L5001	2122253	LA AXIAL COIL	Sc209	2631722	KEY SWITCH
L5002	2120482	FILTER COIL 100MH 10%	Sc211	2631722	KEY SWITCH
L501	2122241	LA AXIAL COIL 12UH	Sc212	2631722	KEY SWITCH
L502	2122241	LA AXIAL COIL 12UH	Sc222	2631722	KEY SWITCH
L503	2122241	LA AXIAL COIL 12UH	Sc223	2631722	KEY SWITCH
L701	2122093	FILTER COIL	S151	2630771	PUSH SWITCH
$\Delta$ L703	2162043	HORIZONTAL LINEARITY COIL	S4001	2620163	SLIDE SWITCH
L851	2122254	LA AXIAL COIL 120 UH	V1	2353994	CPT A51JCC11X
$\Delta$ L901	2121672	FILTER COIL	X0201	2705302	CRYSTAL 4.5MHZ
$\Delta$ L902	2121672	FILTER COIL	X501	2790441	CRYSTAL
L903	2122121	COIL			
L906	2120489	FILTER COIL			
L907	2120489	FILTER COIL			
L908	2120482	FILTER COIL 100MH 10%			
$\Delta$ L910	2163055	DEGAUSSING COIL			

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
	0043209	TELESCOPIC ANTENNA		4159423	M3X12 SCREW FOR RC PWB
$\Delta$	2425441	TUNER ET-449			W/WASHER
$\Delta$	2433702	FLYBACK TRANSFORMER		4263111	SPRING-SPEAKER PANEL
$\Delta$	2442032	DEFLECTION YOKE		4280881	BATTERY TERMINAL (B-2)
	2582552	REMOTE CONTROL TRANSMITTER		4280891	BATTERY TERMINAL (C-2)
	2658893	CPT SOCKET		4518372	SCREW-6X25MM
	2660413	PLUG		4518742	M2,3X12 PAN HEAD SCREW
	2661752	3P PIN PLUG WITH BASE			WITH WASHER
	2661753	PLUG		4518751	M2,3 NUT
$\Delta$	2742555	AC POWER CORD		4521451	M2,6 BIND SCREW
	2750243	RCD ANTENNA ASS		4614001	WEDGE
	2750341	LOOP ANTENNA SASS		4616791	SWITCH GUM
	2771831	C-F MAGNET		4770772	3 NUT
	2771892	FERRITE BEADS CORE 004			
	2781282	BEAD BAND			
	2781692	WASHER YDIA			
	2782011	CENTER PIN			
	2783181	LEAD PIN			
	2784331	CPT SOCKET FOCUS COVER			
	2784505	FEEDER SET			
	2786281	MICA SHEET			
	2786301	TRS SHEET			
	3116733	CABINET WITH FRAME (HCPA)			
		(CT2000W)			
	3116731	CABINET WITH FRAME (HCPA)			
	3262442	KNOB-APS			
	3265801	SELECT BUTTON			
	3457081	BACK COVER ASS (HCPA)			
	3719342	CANOE RIVET			
	3727972	HOLDER-AC LINE CORD			
	3738321	PLASTIC FOOT ASS			
	3738331	PIN-PLASTIC FOOT FIXING			
	3749181	ANTENNA HOLDER			
	3763751	SK BINDER			
	3771501	KNOB PRESET			
	3772201	AC CORD HOLDER			
	3778101	CORD CASE			
	3778213	BATTERY LID			
	3778221	REMOTE CONTROL FILTER			
	3778492	R/C CASE (A)			
	3779031	KNOB-CHANNEL			
	3779041	VOLUME KNOB			
	3781032	DOOR-S			
	3781033	DOOR-W (CT2000W)			
	3781141	R/C CASE (B)			
	3781274	SIDE SPEAKER PANEL			
	3781275	SIDE SPEAKER PANEL (CT2000W)			
	4159412	3X12 TAPPING SCREW			
	4159421	M3X8 TAPPING SCREW			

# HITACHI PARTS ORDERING INFORMATION

To receive original replacement parts, please contact your nearest HITACHI Parts Distributor or contact Hitachi Central Parts Warehouse listed below. Be sure to indicate part catalog number, part description and model number (located on back of product).

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Phone #404-763-0360

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Phone #312-593-1550

## Eastern Regional Office

1200 Wall Street West Lyndhurst, NJ 07071

Phone #201-935-8980

## Western Regional Office

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Phone #213-537-8383



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**HITACHI SALES CORPORATION DE PANAMA, S.A.**

Apartado 7656, Panama 5, Calle Ramon Arias Y Calle B, Edificio Brasil 100, Nuevo Reparto el Carmen, Republic de Panama	Tel. 61-3100
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CT2000S/CT2000W-511 YK No.933E YOKOHAMA  
NTSC-SYSTEM NP83X Chassis